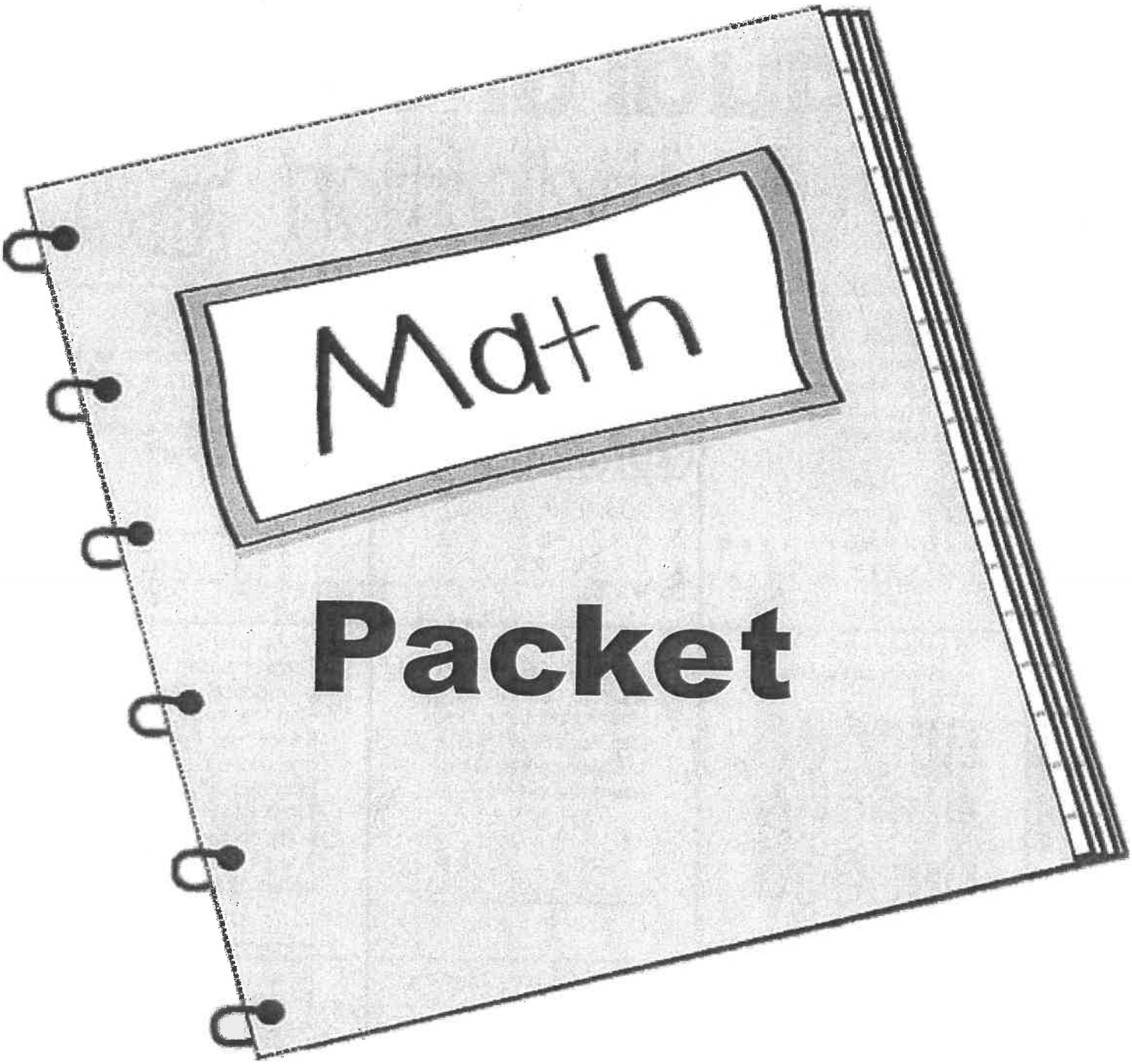


Name _____

Numbers & Operations in Base 10 3.NBT.1

Name _____ Date _____

Rounding Numbers

1. Round the following number to the nearest 10.
467

2. Round the following number to the nearest 10.
834

3. Round the following number to the nearest 100.
652

4. Round the following number to the nearest 10.
242

5. Round the following number to the nearest 100.
799

6. Place 360 on the number line below.

300 400

Is 360 closer to 300 or 400? _____

7. Place 880 on the number line below.

800 900

Is 880 closer to 800 or 900? _____

8. Place 694 on the number line below.

690 700

Is 694 closer to 690 or 700? _____

9. Place 258 on the number line below.

250 260

Is 258 closer to 250 or 260? _____

10. A three digit number has the digits 2, 5, and 7. When rounded to the nearest hundred, it rounds to 800. What is the number? _____

Name _____ Date _____

Add & Subtract Whole

1. Find the sum. 72 + 29	2. Find the difference. 62 - 38	3. Find the missing number. 57 + ____ 82
4. Find the sum. 136 + 173	5. Find the difference. 347 - 262	6. Find the missing number. 423 + ____ 705
7. Jesse scored 486 points on a video game. April scored 182 points. How many more points did Jesse score than April?	8. Mrs. Miller drove 278 miles on Monday and 342 miles on Tuesday. Write and solve a number sentence to find how far she drove in all.	9. Lanie has 225 pennies, 105 nickels, and 25 dimes. How many coins does she have in all?

10. The table below shows items purchased for a summer pool party.

Item	Number Purchased
Bottled Water	36
Popsicles	24
Pool Toys	12

Which number sentence can be used to find how many more bottles of water than popsicles were purchased?

A. 36 - 12 = ____
B. 36 + 12 = ____
C. 36 - 24 = ____
D. 36 + 24 = ____

Numbers & Operations in Base 10

3.NBT.3

Name _____ Date _____

MULTIPLY Whole Numbers

1. Find the product.

$$\begin{array}{r} 50 \\ \times\ 6 \\ \hline \end{array}$$

2. Which method shows one way to find 4 X 20?

A. Multiply 4 x 2, then add 10
B. Multiply 4 x 2, then multiply by 10
C. Multiply 4 x 10, then add 10

3. What is the product of 3 x 80?

_____

How does knowing the product of 3 x 8 help you solve 3 x 80?

4. Jake mows lawns in the summer. He earns $10 for each lawn he mows. He mows 2 lawns each week. How much money will Jake earn in 9 weeks?

_____

5. Kelly runs 2 miles each day, Monday through Friday. How many miles does she run in 4 weeks?

_____

6. Which equation is true?

A. 50 x 2 = 52
B. 50 x 2 = 100
C. 50 x 2 = 502
D. 50 x 2 = 1000

7. A case of soft drinks has 24 cans in it. How many total cans are there in 6 cases?

_____

8. Which equation means the same as 7 x 60?

A. 7 x 6 + 0
B. 7 x 6 x 0
C. 7 x 6 + 10
D. 7 x 6 x 10

9. Andrew is on the track team. He runs 20 laps around the track every day. How many laps does he run in 7 days?

_____

Name _____ Date _____

Equal Groups Multiplication

1. Becca collected 6 boxes of seashells. She put 7 seashells in each box. Which of these shows how may seashells Becca has collected?

A. 6×7
B. $6 + 7$
C. $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$
D. $7 \times 7 \times 7 \times 7 \times 7 \times 7$

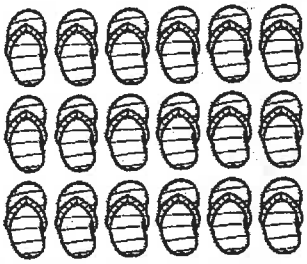
2. Which equation below is represented in the picture?

A. 20×4
B. 10×2
C. $5 \times 5 \times 5 \times 5$
D. 4×5

3. Liz has 4 boxes of crayons. Each box contains 8 crayons. Write an expression Liz could use to show the total number of crayons she has all together?

_____

4. Which expression is represented by this array?



_____

5. Dan has 8 pages of baseball cards. There are 8 cards on each page. How many cards does Dan have in all? Write a number sentence to solve the problem.

_____

6. Allysa makes 3 bracelets. Each bracelet has 9 beads. She uses 3×9 to find the total number of beads. Her friend puts one more bead on each bracelet Allysa makes. What new multiplication fact can be used to find the total number of beads they used?

_____

7. Mrs. Smith baked 3 batches of cookies. Each batch had 12 cookies. Which expression shows how many cookies Mrs. Smith baked?

A. $12 + 3$
B. $12 - 3$
C. 12×3
D. $3 + 3 + 3$

8. Draw an array to match the word problem below.

Holly has 3 boxes of popsicles. Each box has 5 popsicles in it. How many popsicles does Holly have all together?

_____

9. Which is another way to find the total number of ladybug legs?

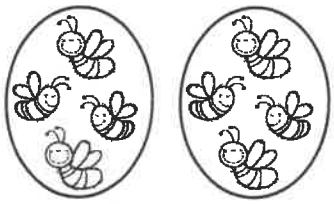
$6 + 6 + 6 + 6$

A. $4 + 6$
B. 4×6
C. $6 - 4$
D. $4 + 4 + 4 + 4 + 4 + 4$

Name _____ Date _____

EQUAL GROUPS Division

1. Which equation is shown by the picture?



A. 8 ÷ 2 = 4
B. 8 ÷ 4 = 2
C. 4 ÷ 2 = 2
D. 4 ÷ 4 = 1

2. Mr. Richards has $15 to divide equally between his 3 children. Which equation could Mr. Richards use to find out how much money each of his children should receive?

A. 15 + 3 = 18
B. 15 - 3 = 12
C. 15 ÷ 3 = 5
D. 15 x 3 = 45

3. Amanda has a bag of 32 popsicles to give out at her pool party. There are 7 girls at her party. If she divides the popsicles between all the girls, including herself, how many popsicles will each girl get?

_____

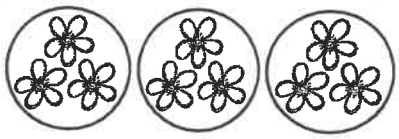
4. Addison read 45 books over the summer. She sorts her books into 5 equal groups. How many books does she put in each group?

_____

5. Dan buys 6 packs of gum with 5 pieces in each pack. He shares the gum evenly among himself and 5 friends. Write an equation to show many pieces of gum will each friend receive?

_____

6. Julie drew the picture below to match an equation. Which equation matches Julie's picture?



A. 3 x 3 = 9
B. 9 ÷ 3 = 3
C. 9 - 3 = 6
D. 27 ÷ 3 = 9

7. Leah bought 54 strawberries. She put the same number of strawberries into 9 baskets. Write an equation to show how many strawberries she put in each basket.

_____

8. Nick has collected 60 rocks. He puts an equal number of rocks into 5 boxes. How does Nick find the number of rocks in each box?

A. He multiplies 5 times 60
B. He subtracts 5 from 60
C. He adds 60 to 5
D. He divides 60 by 5

9. Abby makes 12 cupcakes for 6 friends. She wants to know how many cupcakes each friend will get. Which expression will help Abby find the number of cupcakes each friend will get?

A. 12 ÷ 6 = 2
B. 12 x 2 = 6
C. 18 ÷ 6 = 3
D. 12 x 6 = 72

Name _____ Date _____

Word Problems
Using Multiplication & Division

1. Matt is preparing envelopes to be mailed. It takes him 2 minutes to prepare each envelope. How long would it take him to prepare 16 envelopes?

A. 18 minutes
B. 26 minutes
C. 30 minutes
D. 32 minutes

2. Eight hotdogs come in a pack. Katie used the following number sentence to find the number of hotdogs in 7 packages.

8 + 8 + 8 + 8 + 8 + 8 + 8 = ___

Finish the equation to show another way to find the number of hotdogs in 7 packs.

____ x ____ = ____

3. Scott has 56 pieces of candy to share evenly among 8 friends. How many pieces of candy will each friend get?

A. 6 pieces of candy
B. 7 pieces of candy
C. 8 pieces of candy
D. 9 pieces of candy

4. A ladybug has 6 legs. Which equation shows the number of legs on 5 ladybugs?

A. 6 x 5 = 30
B. 5 x 5 = 25
C. 30 ÷ 6 = 5
D. 30 ÷ 5 = 6

5. Michael bought 6 video games at the store for $42. If the price for each video game was the same, how much did he pay for each video game?

A. $6
B. $7
C. $8
D. $9

6. Tara places 4 bowls on a table. She puts 4 scoops of ice cream in each bowl. How many scoops of ice cream does Tara place in the bowls all together?

A. 4 scoops
B. 8 scoops
C. 12 scoops
D. 16 scoops

7. There are 36 children at a summer library program. The librarian forms 4 equal groups. Which number sentence can be used to find the number of children in each group?

A. 36 + 4 = ___
B. 36 - 4 = ___
C. 36 ÷ 4 = ___
D. 36 x 4 = ___

8. Twelve people want to see a movie. If each car can hold 4 people, which equation shows how many cars are needed to take all 12 people to the movie?

A. 12 ÷ 4 = 3
B. 12 + 4 = 16
C. 12 - 4 = 8
D. 12 x 4 = 48

9. Jan bought 3 cans of frozen lemonade. She can make 8 cups of lemonade with each can. How many cups of lemonade can Jan make in all?

A. 11 cups
B. 21 cups
C. 24 cups
D. 27 cups

Operations & Algebraic Thinking 3.OA.4

Name _____ Date _____

Unknown Whole Numbers

Place a number in each blank to make the number sentence true.

1. 9 x ___ = 27

2. 36 ÷ ___ = 6

3. ___ x 4 = 40

4. ___ ÷ 3 = 7

5. 10 x ___ = 20

6. 5 x ___ = 45

7. 42 ÷ ___ = 6

8. ___ ÷ 2 = 4

9. 5 x ___ = 30

Name _____ Date _____

PROPERTIES of Operations

Communitive	Associative	Distributive	Zero	Identity
We can swap numbers and change the order, but the product stays the same.	It doesn't matter how we group the numbers. The product stays the same.	You can multiply a sum by multiplying each addend separately and then add the products.	When we multiply any number by zero the product is always zero.	Any time you multiply a number by one, the product is the original number.
$2 \times 3 = 3 \times 2$	$2 \times (3 \times 4) = (2 \times 3) \times 4$	$2 \times (3 + 4) = 2 \times 3 + 2 \times 4$	$6 \times 0 = 0$ (OR) $0 \times 6 = 0$	$9 \times 1 = 9$ (OR) $1 \times 9 = 9$

1. Which expression is equivalent to $3 \times (6 + 9)$?
   A. $(3 + 6) + (3 + 9)$
   B. $(3 \times 6) + (3 + 9)$
   C. $(3 + 6) + (3 \times 9)$
   D. $(3 \times 6) + (3 \times 9)$

2. Given the equation $2 \times 8 \times 5 = 80$, which expression also equals 80?
   A. $2 + 8 + 5$
   B. 8×5
   C. $5 \times 2 \times 8$
   D. $8 \times 5 \times 3$

3. Which number sentence is true?
   A. $4 \times (5 \times 2) = (4 \times 5) \times 2$
   B. $4 \times (5 \times 2) = 4 \times 5 + 2$
   C. $4 \times (5 \times 2) = (4 + 5) \times 2$
   D. $4 \times 5 = 4 \times 2$

4. Which number sentence is not equal?
   A. $8 \div 2 = 2 \div 8$
   B. $8 \times 2 = 2 \times 8$
   C. $8 \times (2 \times 4) = (8 \times 2) \times 4$
   D. $8 \times (2 + 4) = 8 \times 2 + 8 \times 4$

5. Which number will make the number sentence true?

   $4 \times (2 \times 6) = (4 \times \_\_\_\_) \times 6$

6. Which number will make the number sentence true?

   $6 \times 7 = \_\_\_\_ \times 6$

7. The example $5 \times 0 = 0$, is an example of which property?
   A. Distributive Property
   B. Identity Property
   C. Associative Property
   D. Zero Property

8. The example $1 \times 9 = 9$, is an example of which property?
   A. Zero Property
   B. Associative Property
   C. Identity Property
   D. Distributive Property

Name _____ Date _____

Division with Unknown Factors

1) Ally wants to find the quotient to 15 ÷ 3. Which expression would help Ally find the answer?

A. 15 - 5
B. 15 + 5
C. 15 x 3
D. 5 x 3

2) Which method could Jake use to solve this problem?

8 x ___ = 56

A. Add 8 and 56
B. Subtract 8 from 56
C. Divide 56 by 8
D. Multiply 56 times 8

3) Which set of expressions DO NOT belong to the same fact family?

A. 20 ÷ 4 and 4 x 5
B. 20 ÷ 5 and 20 x 4
C. 4 x 5 and 4 ÷ 20
D. 5 x 4 and 5 ÷ 20

4) Which equation has the same missing number as:

18 ÷ 6 = ___

A. 6 + ___ = 18
B. 18 x 6 = ___
C. 6 x ___ = 18
D. 18 - 6 = ___

5) Tara wants to find the quotient to 32 ÷ 8. Which expression would help Tara find the answer?

A. 8 + 4
B. 8 x 4
C. 32 x 4
D. 32 - 4

6) Which expression CANNOT be used to solve:

12 ÷ ___ = ___

A. 12 x 1
B. 3 x 4
C. 6 x 2
D. 5 x 7

7) What question can be asked to solve the number sentence 18 ÷ 9?

A. What number equals 2 when multiplied by 9?
B. What number equals 9 when multiplied by 2?
C. What number equals 9 when multiplied by 18?
D. What number equals 18 when multiplied by 9?

8) To find 36 ÷ 4, what question should you ask yourself?

A. 4 times 36 equals what number?
B. 4 times what number equals 36?
C. 36 times what number equals 4?
D. 36 times 4 equals what number?

9) Macie has 56 strawberries to sort into baskets. She wants to put 8 strawberries into each basket. Which equation can be used to determine the number of baskets she needs?

A. ___ ÷ 8 = 56
B. 8 + ___ = 56
C. 8 x ___ = 56
D. 56 - 8 = ___

10) There are 8 children at an art party. They have a total of 40 colored pencils to share equally. Which number sentence can be used to find the number of colored pencils each child will get?

A. 5 x 40 ___
B. ___ - 5 = 8
C. 40 x 8 = ___
D. 40 ÷ ___ = 5

Name _____ Date _____

MULTIPLY & Divide

1. 9 x 2 = _____	2. 7 x 3 = _____	3. 5 x 4 = _____	4. 8 x 7 = _____
5. 3 x 0 = _____	6. 9 x 5 = _____	7. 6 x 6 = _____	8. 4 x 3 = _____
9. 42 ÷ 6 = _____	10. 24 ÷ 4 = _____	11. 81 ÷ 9 = _____	12. 32 ÷ 8 = _____
13. 20 ÷ 2 = _____	14. 36 ÷ 9 = _____	15. 72 ÷ 8 = _____	16. 21 ÷ 3 = _____
17. Write a related fact for 4 x 4 = 16. ____ ÷ ____ = ____	18. Write a related fact for 5 x 3 = 15. ____ ÷ ____ = ____	19. Write a related fact for 27 ÷ 9 = 3. ____ x ____ = ____	20. Write a related fact for 40 ÷ 8 = 5 ____ x ____ = ____
21. Mr. Nix has 8 grandchildren. He wants to give each grandchild 3 books. How many total books does he need? Write an expression and solve.	22. Laci has 8 cookies. She and 3 friends share them equally. How many cookies did they each get? Write an expression and solve.	23. Erin's dance teacher wants to put 48 dancers into 6 groups. How many students will be in each group? Write an expression and solve.	24. Randy had guitar lessons 7 times each month for 9 months. What was the total number of guitar lessons Randy had in 9 months? Write an expression and solve.

Write the related facts (fact family) for the arrays.

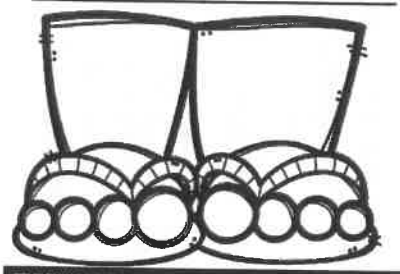
25. □□□□□
___ x ___ = ___
___ x ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

26. □□□
___ x ___ = ___
___ x ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

27. □□
___ x ___ = ___
___ x ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

Name _____ Date _____

Two-step Word Problems



1. Callie had 13 new pens. She gave 2 pens to each of her 6 friends. How many pens did she have left?

A. 1 pen
B. 11 pens
C. 12 pens
D. 21 pens

2. Wes and Joey each have 7 baseball cards. Ben has 5 fewer cards than Wes and Joey combined. How many baseball cards does Ben have?

A. 2 baseball cards
B. 5 baseball cards
C. 9 baseball cards
D. 10 baseball cards

3. Kylie had a pack of 48 crayons. She lost 8 of the crayons at school and her sister broke 4 of them. How many crayons does Kylie have now?

A. 60 crayons
B. 52 crayons
C. 36 crayons
D. 12 crayons

4. Mark got $10, $20, $15, and $5 as birthday gifts. He wants to buy a game that costs $55. How much more money does he need?

A. $4
B. $5
C. $6
D. $8

5. Pete caught 4 fish. Robbie caught 3 times as many fish as Pete. Nic caught 27 fish. How many more fish does Nic have than Robbie?

A. 24 more fish
B. 15 more fish
C. 8 more fish
D. 7 more fish

6. Kat has 3 piles of rocks with 7 rocks in each pile. Her friend adds more rocks to the piles. Now, there are 32 rocks total. How many rocks did her friend bring?

A. 11 rocks
B. 12 rocks
C. 21 rocks
D. 22 rocks

7. A farmer fills 4 cartons with eggs. Each carton holds 6 eggs. After the farmer fills the cartons he has 3 eggs left over. How many total eggs does the farmer have?

A. 27 eggs
B. 24 eggs
C. 21 eggs
D. 20 eggs

8. Taylor spent 90 minutes at the beach. She ate lunch for 27 minutes and played a game for 32 minutes. She spent the rest of the time swimming. About how long did Taylor spend swimming?

A. 18 min.
B. 30 min.
C. 49 min.
D. 59 min.

9. Andrea wants to save 900 Box Tops. She saved 135 in one month. She saved 83 the next month. About how many more Box Tops does Andrea need to save?

A. fewer than 300
B. between 300 and 600
C. between 600 and 800
D. more than 800

Name _____ Date _____

FIND THE Pattern

1. If the pattern continued, what number would come next in the sequence?

3, 7, 11, 15, ___

What rule does the pattern follow? _____

2. What are the missing two numbers in this pattern?

1, 2, 4, 8, ___, ___

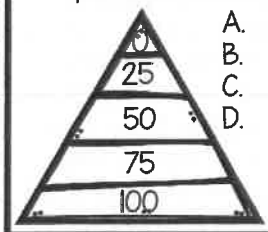
What rule does the pattern follow? _____

3. If the pattern continued, what number would come next in the sequence?

9, 12, 15, 18, ___

What rule does the pattern follow? _____

4. The numbers on the triangle form a pattern from the top to the bottom. What rule is followed to make the pattern shown?



A. subtract 50
B. add 50
C. subtract 25
D. add 25

5. Which shows the shirts arranged in a pattern counting by five?

A. 6, 18, 24, 30
B. 15, 20, 25, 30
C. 15, 20, 25, 35
D. 20, 25, 30, 40

6. Which statement is true about this y and z chart?

y	z
9	3
8	4
7	5
6	6
5	7

A. $y \div 2 = z$
B. $y \div 3 = z$
C. $y + z = 12$
D. $y - z = 6$

7. Which is true when any number is multiplied by 2?

A. The answer will be even.
B. The answer will be odd.
C. The answer will end in 2.
D. The answer will be a two-digit number.

8. Tori said that anytime an odd number is multiplied by any other number, the answer will always be an odd number. Which multiplication fact proves Tori is incorrect?

A. 3×7
B. 5×6
C. 7×5
D. 9×3

9. Larry found a pattern when he multiplied numbers by 8. Which pattern could Larry have found?

A. all products are odd numbers
B. all products end in 8
C. all products are even numbers
D. all products end in 0

10. Mrs. Brown's class is studying patterns. Four of her students made the statements below.

- **Ricky said, "Adding two even numbers equals an even sum."**
- **Tara said, "Adding two even numbers equals an odd sum."**
- **Alex said, "Adding two odd numbers equals an odd sum."**
- **Lani said, "Adding two odd numbers equals an even sum."**

Which student is correct?

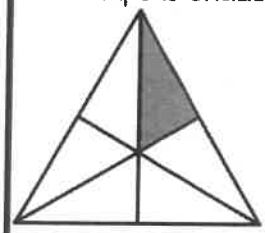
A. Ricky is correct.
B. Tara is correct.
C. Alex is correct.
D. Ricky & Lani are correct.

Number and Operations - Fractions 3.NF.1

Name _____ Date _____

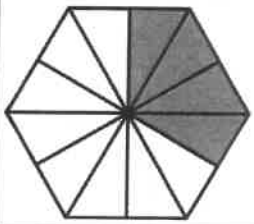
Fraction Models

1. What fraction of the shape is shaded?



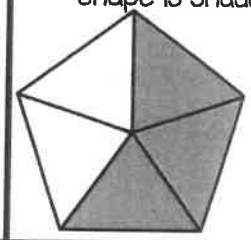
_____

2. What fraction of the shape is shaded?



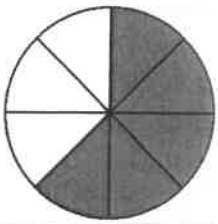
_____

3. What fraction of the shape is shaded?



_____

4. Amy's family had pizza for dinner. The shaded parts below shows how much was eaten. Which fraction shows how much pizza was left?

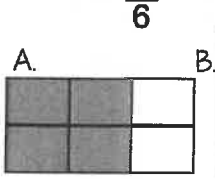


A. $\frac{3}{6}$ C. $\frac{5}{5}$

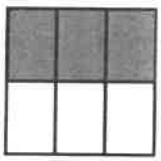
B. $\frac{3}{8}$ D. $\frac{5}{8}$

5. Which fraction model shows $\frac{2}{6}$ shaded?

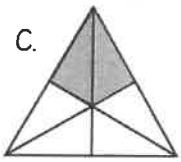
A.



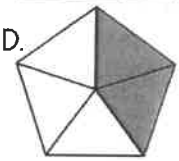
B.



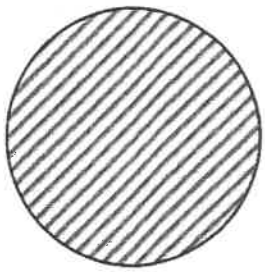
C.



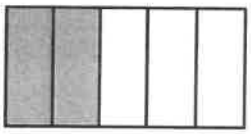
D.



6. The circle below shows one whole. Shade the circle to show $\frac{3}{4}$.



7. Wesley drew a model of a candy bar and shaded the amount he ate. What fraction of the candy bar did Wesley eat?

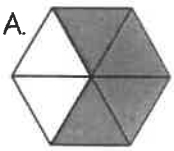


A. $\frac{5}{2}$ B. $\frac{3}{5}$ C. $\frac{2}{6}$ D. $\frac{2}{5}$

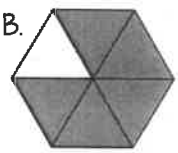
8. Kasey drew a hexagon and shaded it $\frac{5}{6}$.

Which shape could be hers?

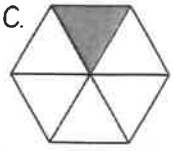
A.



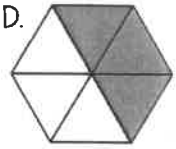
B.



C.

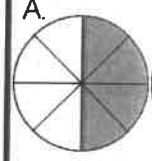


D.

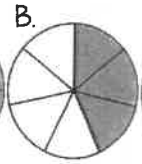


9. Mrs. Smith cut an apple into 8 equal slices. She gave 3 of the slices to her son and 2 slices to her daughter. Which fraction model shows how many slices Mrs. Smith has left.

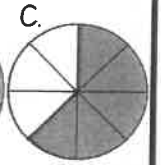
A.



B.

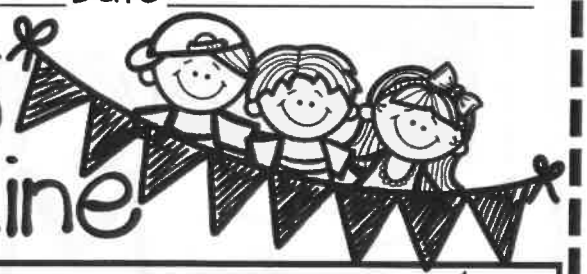


C.



Name _____ Date _____

Fractions on a Number Line



1. On which number line does the point best represent $\frac{1}{8}$?

A. 

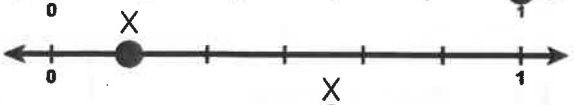
B. 

C. 

D. 

2. Which number line shows point X at $\frac{1}{6}$?

A. 

B. 

C. 

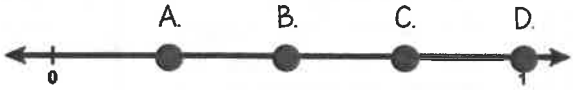
D. 

3. What is the value of point P on the number line below?

A. $\frac{2}{5}$ B. $\frac{1}{6}$ C. $\frac{1}{2}$ D. $\frac{1}{5}$

4. Pat is going to plot a point at $\frac{1}{4}$ on the number line below.

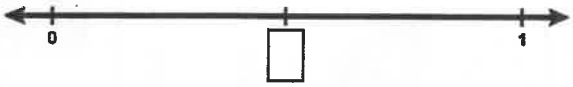
Where should Pat plot the point?



5. What is the fraction on which the smiley face is located?

A. $\frac{2}{4}$ B. $\frac{1}{4}$ C. $\frac{1}{3}$ D. 1

6. What fraction belongs in the box?



A. $\frac{1}{3}$ B. $\frac{1}{5}$ C. $\frac{2}{3}$ D. $\frac{1}{2}$

7. The number line below is divided into equal parts between 0 and 1. What fraction is shown by the shaded part of this number line?

A. $\frac{1}{6}$ B. $\frac{1}{5}$ C. $\frac{2}{5}$ D. $\frac{1}{4}$

8. What is the interval between each point on the number line below?

A. 1 B. $\frac{1}{7}$ C. $\frac{1}{8}$ D. $\frac{1}{9}$

9. Jake's race is divided into checkpoints on the number line below. How far through the race is Jake when he reaches checkpoint X?

A. $\frac{1}{3}$ B. $\frac{1}{2}$ C. $\frac{1}{5}$ D. $\frac{1}{4}$

10. What is the length of the line segment below?

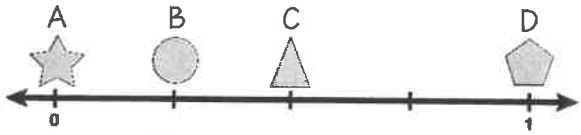
A. $\frac{1}{4}$ B. $\frac{1}{6}$ C. $\frac{2}{6}$ D. 1

Number and Operations – Fractions 3.NF.3

Name _____ Date _____

Equivalent Fractions

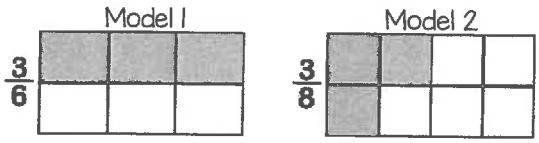
1. Which shape is at the fraction $\frac{4}{4}$ on the number line?



2. Which fraction on the number line is equal to one whole?

A. $\frac{5}{5}$ B. $\frac{1}{5}$ C. $\frac{2}{5}$ D. $\frac{4}{5}$

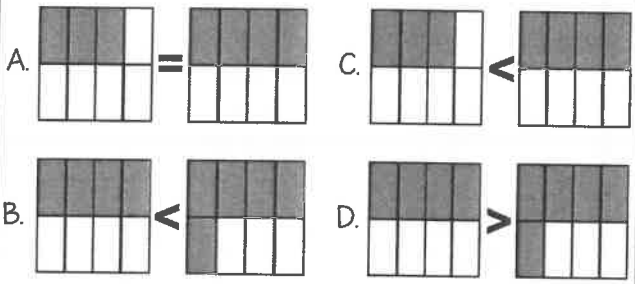
3. Model 1 and Model 2 are each divided into equal parts with 3 parts shaded on each model. Which statement correctly compares the two models?



A. Model 1 is equal to model 2 because the numerators are the same.
B. Model 1 is greater than model 2 because it has a larger denominator.
C. Model 1 is less than model 2 because 3 parts out of 6 is less than 3 parts out of 8.
D. Model 1 is greater than model 2 because 3 parts out of 6 is greater than 3 parts out of 8.

4. Which model correctly compares the two fractions below.

$\frac{4}{8} \bigcirc \frac{5}{8}$



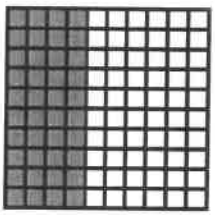
5. A recipe for trail mix requires the following ingredients.

$\frac{1}{3}$ cup of peanuts $\frac{2}{3}$ cup of sunflower seeds
$\frac{1}{2}$ cup of raisins $\frac{2}{4}$ cup of almonds

Which two items did the recipe require the same amount of?

_____

6. Four tenths of the model is shaded below. Which fraction is equivalent to the shaded portion of this model?



A. $\frac{2}{5}$ C. $\frac{1}{2}$
B. $\frac{6}{10}$ D. $\frac{4}{4}$

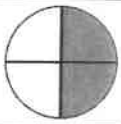
7. Which list includes equivalent fractions?

A. $\frac{1}{2}$ $\frac{3}{4}$ $\frac{5}{6}$ C. $\frac{1}{2}$ $\frac{2}{4}$ $\frac{3}{6}$
B. $\frac{1}{2}$ $\frac{2}{4}$ $\frac{4}{6}$ D. $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{4}$

8. Which of the following is equivalent to $\frac{5}{5}$?

A. $\frac{1}{5}$ C. 5
B. 1 D. $\frac{5}{1}$

9. Janie ate the shaded portion of the pie. Write two equivalent fractions that represent the portion of the pie that Janie ate.

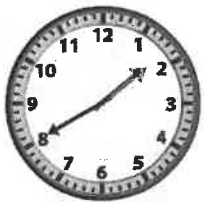


_____ = _____

Name _____ Date _____

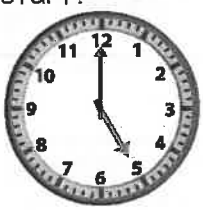
Telling TIME

1. Julia went to the pool 60 minutes after the time shown on the clock. What time did Julia go to the pool?



A. 1:20
B. 1:40
C. 2:20
D. 2:40

2. Lily's birthday party last one hour and thirty minutes. The clock shows what time her birthday party ended. What time did Lily's birthday part start?



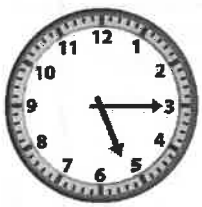
A. 4:00
B. 4:30
C. 3:00
D. 3:30

3. Which clock best represents the time shown on the digital clock?

2:50

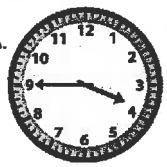
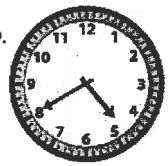
A. 
C. 
B. 
D. 

4. Mrs. Smith started cooking 45 minutes before the time shown on the clock. What time was it when Mrs. Smith started to cook?



A. 4:30
B. 4:45
C. 5:30
D. 5:45

5. The time now is 3:20. Jake has to leave for baseball practice in 15 minutes. Which clock shows the time Jake will leave for baseball practice?

A. 
C. 
B. 
D. 

6. Molly leaves for her grandparents house at the time shown on the clock. She gets back home 3 hours and 30 minutes later. What time did Molly get home?

A. 6:15
B. 6:45
C. 6:00
D. 5:30

7. Kyle leaves his house at 2:30 to go to walk his dog. Taylor leaves her house 20 minutes earlier to walk her dog. What time did Taylor start walking her dog?

A. 1:20
B. 1:40
C. 2:10
D. 2:40

8. Kasey gets up at 6:15 a.m. She eats breakfast at 7:20 a.m. How long is it after Kasey gets up before she eats breakfast?

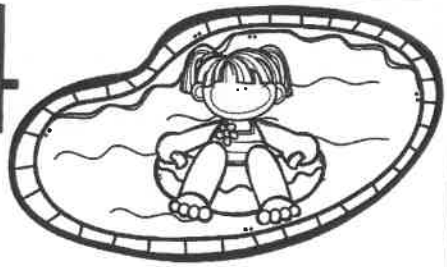
A. 55 minutes
B. 60 minutes
C. 65 minutes
D. 70 minutes

9. It took 18 minutes for Scott to walk to Mark's house. If he left at 7:48, what time did Scott get to Mark's house?

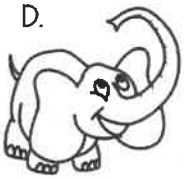
_____

Name _____ Date _____

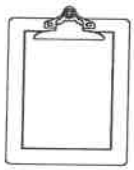
Measurement MASS & VOLUME



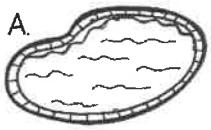
1. Which object weighs about 1 kilogram?

A. 
B. 
C. 
D. 

2. Which object weights about 1 gram?

A. 
B. 
C. 
D. 

3. Which of the following would hold about 1 liter?

A. 
B. 
C. 
D. 

4. A fish tank holds 200 liters of water. If 88 more liters of water are needed to fill the tank, how many more liters of water are already in the tank?

A. 112 liters
B. 122 liters
C. 188 liters
D. 288 liters

5. Michael feeds his dogs about 5 kilograms of dog food per day. About how much dog food does he feed his dogs in 10 days?

A. 5 kilograms
B. 20 kilograms
C. 50 kilograms
D. 100 kilograms

6. The mass of 12 grapes is 72 grams. Each grape has the same mass. What is the mass of one grape?

A. 5 grams
B. 6 grams
C. 8 grams
D. 12 grams

7. Mrs. Brown uses 8 bags of flour a day to bake cakes for her bakery. Each bag has a mass of 6 kg. How many kg of flour does Mrs. Brown use each day?

A. 64 kg
B. 48 kg
C. 40 kg
D. 36 kg

8. Rosa had a fish tank filled with 56 liters of water. She emptied the fish tank by filling a container that holds 7 liters of water. How many times did she fill the container to empty the fish tank?

A. 6 times
B. 7 times
C. 8 times
D. 9 times

9. Wesley had 2 pieces of bread. They each weigh 25 grams. How much do the two pieces of bread weigh altogether?

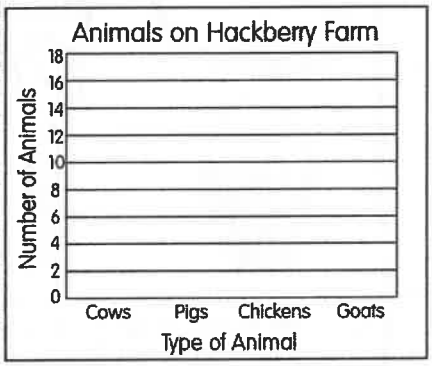
A. 23 grams
B. 27 grams
C. 50 grams
D. 100 grams

Measurement and Data 3.MD.3

Name _____ Date _____

Graphing Data

1. Mr. Hackberry counted the number of animals on his farm. He counted 14 cows, 9 pigs, 17 chickens, and 6 goats. Make a bar graph to show the number of animals on his farm.



2. How many more chickens are there than pigs?

A. 3 more C. 9 more

B. 8 more D. 11 more

3. How many animals did Mr. Hackberry have in all?

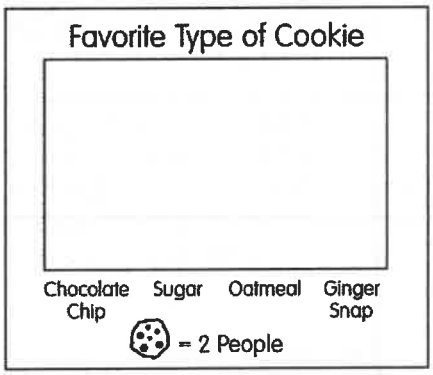
A. 46 animals C. 40 animals

B. 45 animals D. 31 animals

4. Jillan surveyed 16 of her friends about their favorite type of cookie. Her results are below.

Chocolate Chip	6
Sugar	3
Oatmeal	5
Ginger Snap	2

Draw a pictograph to show the number of people that liked each cookie.

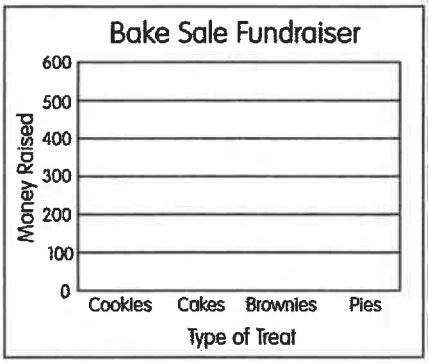


5. How many more people liked oatmeal than sugar?

A. 4 more C. 8 more

B. 3 more D. 2 more

6. The cheerleading team held a bake sale fundraiser. Each item cost $1. They sold 450 cookies, 200 cakes, 350 brownies, and 600 pies. Make a bar graph to show how much money they earned from each item sold.



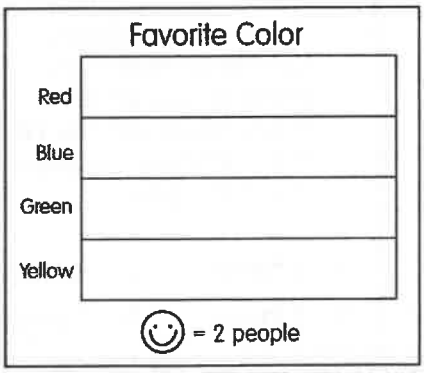
7. Based on the results, which item should they make more of to sale at their next bake sale fundraiser?

A. cookie C. brownies

B. pies D. cakes

8. What interval was used for this scale? _____

9. Survey friends and family members about their favorite color. Make a pictograph to show how many people liked each color. Based on your results create a question with answer choices about your graph. Be sure to circle the correct answer.



10. _____

_____

_____

_____

_____

A. _____ A. _____

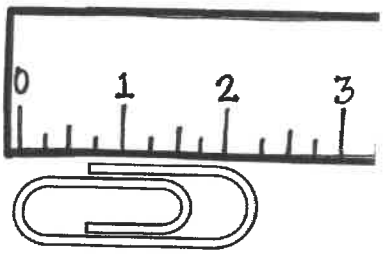
B. _____ B. _____

Measurement and Data 3.MD.4

Name _____ Date _____

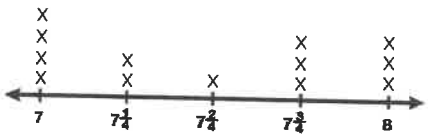
Measuring School Rules Length

1. Which measurement is closest to the length of the paperclip?



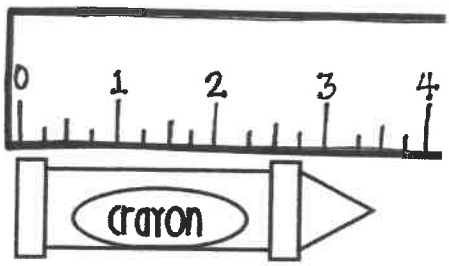
A. $1\frac{1}{2}$ B. $1\frac{3}{4}$ C. $2\frac{1}{4}$ D. $2\frac{1}{2}$

2. Katie measured the length of some straws. The length of each straw is plotted on the line plot below. How many straws are less than $7\frac{1}{2}$ inches?



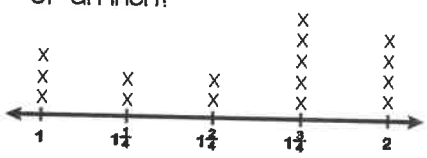
A. 7 B. 6 C. 3 D. 1

3. Which measurement is closest to the length of the crayon?



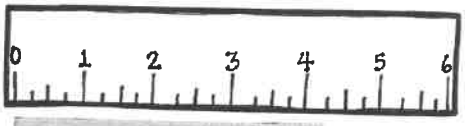
A. 3 B. $3\frac{1}{4}$ C. $3\frac{2}{4}$ D. $3\frac{3}{4}$

4. Jenny measured the rocks in her rock collection to the nearest $\frac{1}{4}$ of an inch. How many rocks measured more than $1\frac{3}{4}$ of an inch?



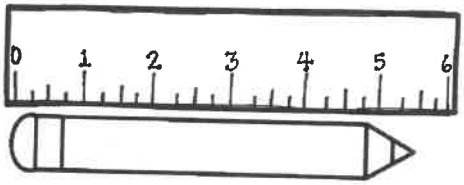
A. 11 B. 9 C. 5 D. 4

5. Which measurement of string is closest to $3\frac{3}{4}$?



A.
B.
C.
D.

6. What is the length of the pencil to the nearest $\frac{1}{2}$ inch?



A. $1\frac{1}{2}$ B. $2\frac{1}{2}$ C. $4\frac{1}{4}$ D. $5\frac{1}{2}$

7. Mark measured and recorded the length of 8 nails in inches. Draw a line plot to show the lengths of all 8 nails in inches.

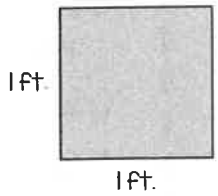
$3\frac{3}{4}$ $1\frac{1}{2}$ $1\frac{1}{4}$ $1\frac{1}{4}$ $2\frac{1}{2}$ $1\frac{1}{4}$ $1\frac{1}{4}$ $1\frac{1}{2}$

8. How many nails were less than $\frac{3}{4}$?

Name _____ Date _____

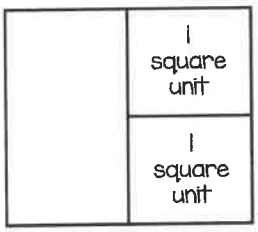
Area of Shapes

1. The side lengths of a square are 1 foot long. Which measure represents the area of the square?



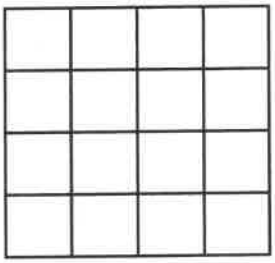
A. 1 square foot
B. 1 foot
C. 4 square feet
D. 4 feet

2. Figure X is divided into 3 parts. Which statement about Figure X is correct?



A. Figure X has an area of 2 square units, because there are 2 squares.
B. Figure X has an area of 3 square units, because it is divided into 3 parts
C. Figure X has an area of 4 square units, because, a total 4 square would cover the figure.

3. What is the area of **each square unit** in the figure below?



A. 16 square units
B. 12 square units
C. 4 square units
D. 1 square unit

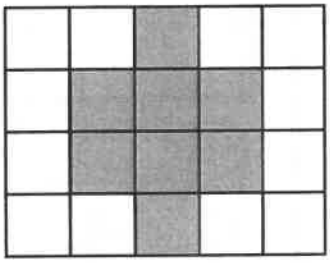
4. Which statement is NOT true?

A. Two square units have an area of 2 square units.
B. A unit square has an area of 1 square unit
C. A unit square has a side length of 1 square unit.
D. Area can be measured using square units.

5. Which of the following could be represented by 80 square feet?

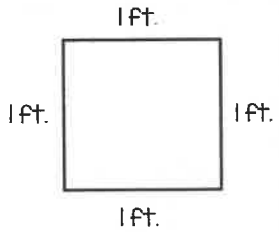
A. the area of a rug
B. the length of a house
C. the volume of a block
D. the perimeter of a living room

6. What is the area, in square units, of the shaded figure?



A. 9 square units
B. 8 square units
C. 12 square units
D. 1 square unit

7. The figure shows the length and width of the tile. Which statement about the tile is true?



A. The tile has an area of 4 square feet, because 1 x 4 = 4.
B. The tile has an area of 2 square feet, because 1 x 1 = 2
C. The tile has a unit of 1 square foot, because 1 x 1 = 1.
D. Area cannot be determined.

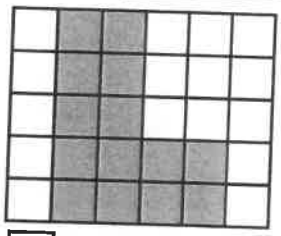
Measurement and Data

3.MD.6

Name _____ Date _____

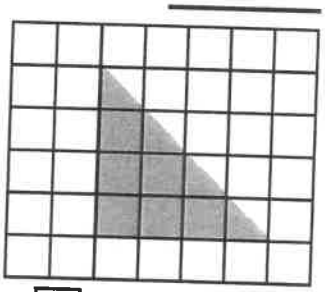
MEASURING Area

1. The diagram below shows the dimensions of a garden. What is the area of the shaded portion?



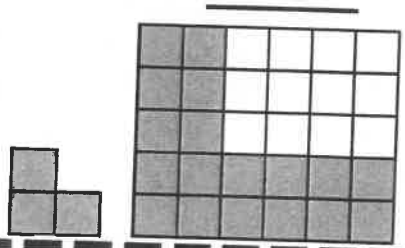
☐ = 1 square yard

2. What is the area of the shaded figure below?

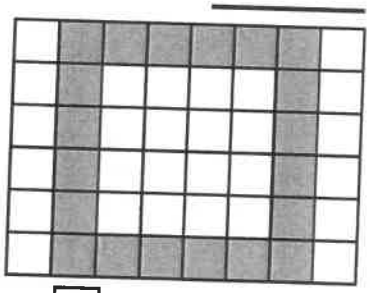


☐ = 1 square unit

3. How many L shaped pieces would it take to cover the shaded figure?

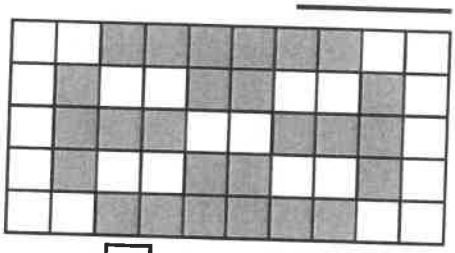


4. The dimensions of a picture frame is shaded on the diagram below. What is the area of the picture frame?



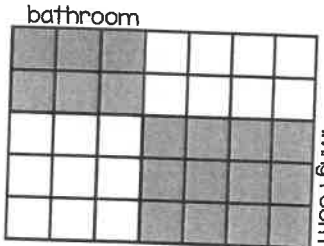
☐ = 1 square inch

5. The pattern on a rug is shaded below. What is the area of the shaded pattern?



☐ = 1 square yard

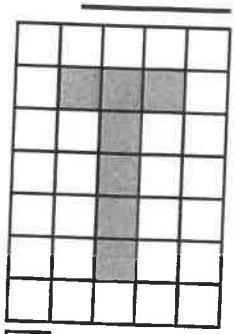
6. Mr. Jones is putting tile on the floor of his bathroom and kitchen. What is the area of the floor he plans to cover with tile?



☐ = 1 square yard

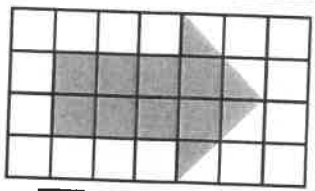
_____

7. What is the area of the shaded figure below?

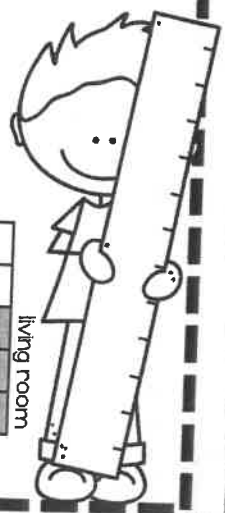


☐ = 1 square unit

8. What is the area of the shaded figure below?



☐ = 1 square unit



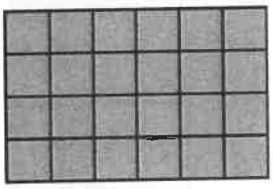
Measurement and Data

3.MD.7

Name _____ Date _____

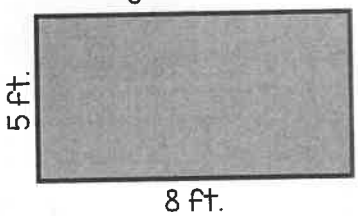
FIND THE AREA

1. One way to find the area of this rectangle is to count each square. Which of the following is another way to find the area?



A. 6 + 4
B. 6 × 4
C. 7 + 4
D. 7 × 4

2. The dimensions of the rectangle are shown in feet. What is the area of the rectangle?

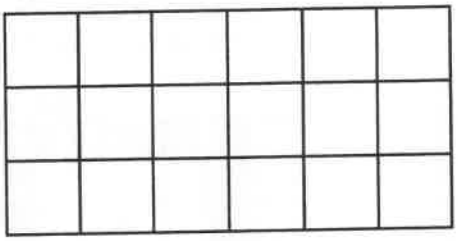


A. 3 square feet
B. 13 square feet
C. 26 square feet
D. 40 square feet

3. The area of a rectangular garden Tyler built is 72 feet. Which could be the length and width of the garden?

A. 8 feet x 7 feet
B. 8 feet x 9 feet
C. 8 feet x 8 feet
D. 7 feet x 10 feet

4. Ms. Ashley used square inch tiles to show a model of a window. Which equation set shows two ways to find the area of the window?



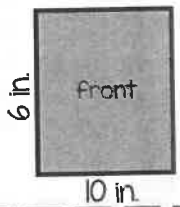
A. 3 + 3 + 3 + 3 + 3 + 3 = 6 × 3
B. 6 + 6 + 6 + 6 + 6 + 6 = 3 × 6
C. 3 × 3 × 3 × 3 × 3 × 3 = 6 × 3
D. 6 + 6 + 6 = 3 + 6

5. Jessica is using square pieces of paper to cover a rectangular bulletin board? The board is 20 feet long by 5 feet wide. Each piece of paper is 1 foot long and 1 foot wide. None of the pieces of paper will overlap. How many pieces of paper will Jessica need to cover the bulletin board? (Draw a picture to solve the problem)

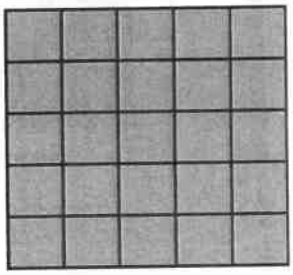
A. 25
B. 50
C. 100
D. 125

6. Sam covered the front and back of his math book with contact paper. The front of the book is the same size as the back. What is the total area of the front and back of Sam's math book?

A. 120 sq. in.
B. 60 sq. in.
C. 32 sq. in.
D. 20 sq. in.

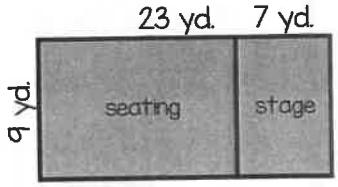


7. Which number sentence shows how to find the area of the square?



A. 5 + 5
B. 5 + 5 + 5 + 5 + 5
C. 5 × 5 × 5 × 5 × 5
D. 5 × 5

8. A diagram of a theater is shown below. The total area of theater floor is (23 x 9) + (7 x 9) square yards. Which expression is equivalent to the total area of the theater floor?



A. 9 x (23 + 7)
B. 9 x (23 x 7)
C. 9 + (23 + 7)
D. 9 + (23 x 7)

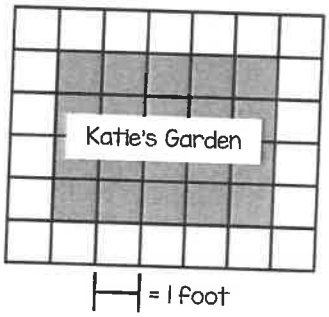
Measurement and Data

3.MD.8

Name _____ Date _____

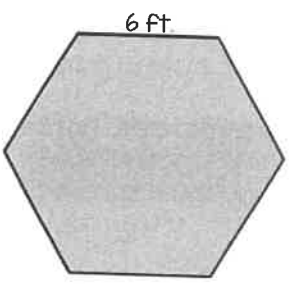
FIND THE PERIMETER

1. Katie wants to put fencing around the outside edge of her garden. To do this, she needs to know the perimeter. What is the perimeter of Katie's garden?



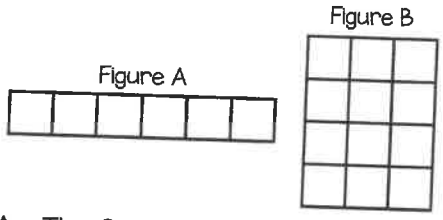
A. 10 feet
B. 18 feet
C. 20 feet
D. 24 feet

2. The picture below represents a patio that measures 6 ft. on each of its six sides. What is the perimeter of the patio?



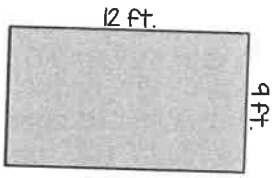
A. 6 feet
B. 12 feet
C. 36 feet
D. 42 feet

3. Ben compared the area and perimeter of the two figures below. Which statement is true?



A. The figures have the same area but different perimeters.
B. The figures have the same perimeter but different area.
C. The figures have the same perimeter and the same area.
D. The figures have different areas and different perimeters.

4. Mrs. Absher bought a rectangle rug for her living room. Which statement about the rug is true?

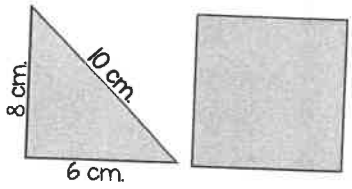


A. The perimeter is 108 feet.
B. The area is 42 feet.
C. The area and perimeter are the same.
D. The perimeter is 42 feet and the area is 108 feet.

5. Amy wants to sew a fringe border around her square shaped blanket. One side of her blanket measures 96 inches. How many inches of fringe border does she need?

_____

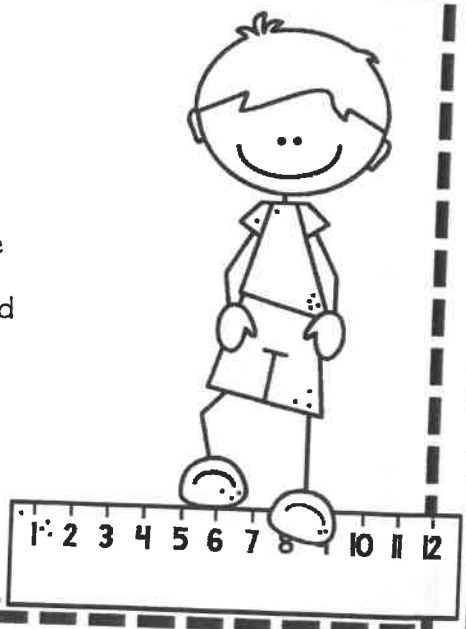
6. The square has the same perimeter as the triangle. What is the length of each side of the square?



A. 6 centimeters
B. 8 centimeters
C. 12 centimeters
D. 24 centimeters

7. Mattie is making a blanket for her mother that measures 54 inches by 68 inches. What is the perimeter of the blanket?

_____



Name _____ Date _____

Identifying SHAPES

1. Which quadrilateral has only one pair of parallel sides and no right angles?

A.  B. 

C.  D. 

2. Hattie drew a shape that cannot be classified as a rhombus, rectangle, or parallelogram. Which shape did she draw?

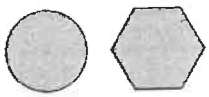
A.  B. 

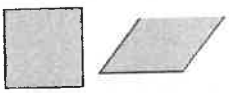
C.  D. 

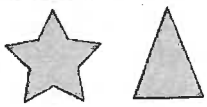
3. What is the difference between a square and a rhombus?

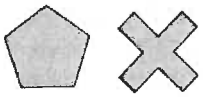
A. A rhombus has 4 obtuse angles.
B. A square has 4 equal sides.
C. A rhombus only has one pair of parallel sides.
D. A square has 4 right angles.

4. Which pair of polygons are parallelograms?

A. 

B. 

C. 

D. 

5. Which of the following statements about square and rectangles is correct?

A. A square is type of rectangle with 5 sides.
B. A square has 4 right angles, but a rectangle has 0 right angles.
C. A square is a type of rectangle with 4 equal sides.
D. A square has 2 pairs of parallel sides, but a rectangle only has 1 pair of parallel sides.

6. What is true about all quadrilaterals?

A. They have 4 right angles.
B. The have 1 pair of parallel sides.
C. They have 4 right angles.
D. They have 4 sides.

7. Tessa drew a quadrilateral with only one pair of equal sides. Which shape could she have drawn?

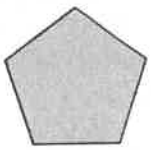
A. rectangle
B. rhombus
C. square
D. trapezoid

8. Which figure is described below?

- has 4 right angles
- has 4 congruent sides
- Has two sets of parallel sides

A. circle
B. rectangle
C. square
D. triangle

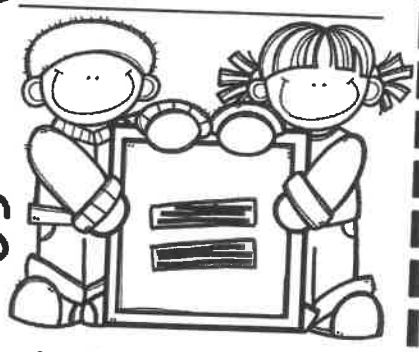
9. Ricky said the shape below is a quadrilateral. Which statement explains why he is incorrect?



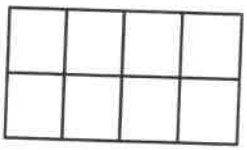
A. A quadrilateral must have 4 sides.
B. A quadrilateral must have 2 sets of parallel sides.
C. A quadrilateral must have to acute angles and zero right angles.
D. A quadrilateral must 2 parallel sides and at least 1 right angle.

Name _____ Date _____

SHAPES with equal parts

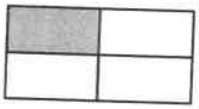
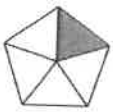


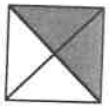
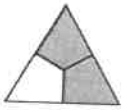
1. The football coach divided the field into equal sections, as shown below. What area of the field is in each section?



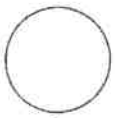
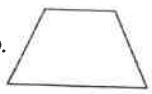
A. $\frac{1}{2}$ B. $\frac{1}{4}$ C. $\frac{1}{8}$ D. $\frac{1}{6}$

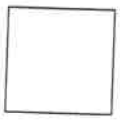
2. Which drawing shows $\frac{1}{4}$ shaded?

A.  B. 

C.  D. 

3. Kelly wants to draw lines in a shape so each section is $\frac{1}{4}$ the area of the shape. Which shape is $\frac{1}{4}$ the area of a triangle?

A.  B. 

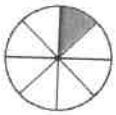
C.  D. 

4. The area of Ned's baseball card page is 16 square inches. If Ned divided his page into fourths, what is the area of one section?

A. 4 square inches B. 20 square inches

C. 12 square inches D. 64 square inches

5. Jake ordered a pizza cut into 8 equal sections. He ate one slice. What fraction of the pizza did Jake eat?



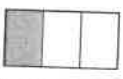
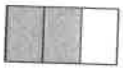
A. $\frac{1}{2}$ B. $\frac{1}{8}$ C. $\frac{1}{7}$ D. 1

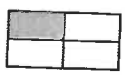
6. Tara has a fruit stand that is divided into equal sections. What fraction of the fruit stand is used for each kind of fruit?

grapes	oranges	lemons	plums
bananas			apples

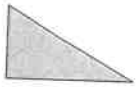
A. $\frac{1}{4}$ B. $\frac{2}{6}$ C. $\frac{1}{6}$ D. $\frac{6}{6}$

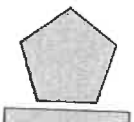
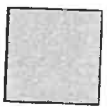
7. Three students sat on equal sections of a park bench. Which bench has the area of one student shaded?

A.  B. 

C.  D. 

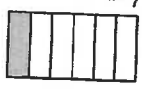
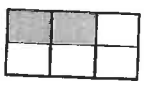
8. The figure below represents $\frac{1}{2}$ of a piece of poster board. What did the whole piece look like?

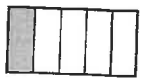
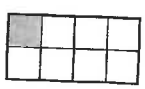


A.  B. 

C.  D. 

9. Mr. Hamby mowed $\frac{1}{6}$ of his yard. He shaded a figure to represent the mowed section. Which diagram did Mr. Hamby shade?

A.  B. 

C.  D. 

10. Kari split her sock drawer up like the diagram below. What area of Kari's sock drawer has blue socks?

red	white	blue	black

A. $\frac{2}{4}$ B. $\frac{1}{4}$ C. $\frac{1}{6}$ D. $\frac{4}{4}$