

Name _____

- 1** Place an X in the table to show if each equation is **true** or **false**.

(Hint... is one side of the equation equal to the other? Think about properties...)

	True	False
$18.69 \times 2.73 = 2.73 \times 18.69$		
$(12 \times 21) \times 368 = 12 \times (21 \times 368)$		
$(692 \times 401) \times 58 = 692 + (401 + 58)$		

- 2** Frank buys 12 stickers for \$2 each **and** he buys 4 sticker albums that each cost twice as much as 1 sticker. Frank has a coupon that gives him a \$2 discount off his total.

Which expression shows how much he spent? (Hint... which tells his purchase story?)

- Ⓐ $(12 \times \$2) + (4 \times \$2) - \$2$
Ⓑ $(12 \times \$2) + (4 \times \$2) + \$2$
Ⓒ $(12 \times \$2) + (4 \times \$4) - \$2$
Ⓓ $(12 \times \$2) + (4 \times \$4) + \$2$

- 3** Evaluate this expression $(57 + 4) \times 4 - 16$ (Hint... Show your steps... carry everything down)

- 4** Lena knows the mass of one dime is about 2.3 grams. She needs to find the mass of 4 dimes. Which equation shows how Lena can find the mass of the dimes in grams?

(Hint... think about what the starting expression looks like then use the **distributive property**...)

- Ⓐ $(4 \times 2.3) + (4 \times 2.3) = 18.4$
Ⓑ $(4 \times 3) + (4 \times 0.2) = 12.08$
Ⓒ $(4 \times 2) + (4 \times 0.3) = 9.2$
Ⓓ $(4 \times 2) + (4 \times 0.03) = 8.12$

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5 Kara followed these steps to evaluate the expression $22 + (30 - 4) \div 2$.

- 1st she did this $30 - 4 = 26$
- Next, she did this $22 + 26 = 48$
- Finally, she did this $48 \div 2 = 24$

Is Kara correct?

Circle one set of words in each box to correctly complete the sentence.

Kara was

correct
incorrect

because you should always

add before dividing
add before subtracting
divide before adding
divide before subtracting

6 Which story does $(5 \times 3) + 2$ represent?

- Ⓐ Paul has 5 trophies on one shelf and 3 trophies on each of 2 shelves.
- Ⓑ Paul has 5 trophies on each of 3 shelves and 2 trophies on another shelf.
- Ⓒ Paul has 5 trophies on each of 3 shelves until he takes 2 trophies off the shelf.
- Ⓓ Paul has 5 trophies on a shelf, 3 trophies on another shelf, and 2 trophies on a third shelf.

7 Evaluate this expression: $(3 \times 9) + (2 \times 11)$ (*Hint... Show your steps... carry everything down*)

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- 8** Devon chose the expression that had a value of 6. Which expression did he choose?

(Hint... evaluate each... only one equals 6)

- Ⓐ $(12 - 8) \times 9$
 - Ⓑ $9 + (12 - 8)$
 - Ⓒ $12 \div (9 - 8)$
 - Ⓓ $(8 \times 9) \div 12$
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- 9** Peter ran 3 miles each day for 17 days. On day 18, Peter ran 5 miles.

Write an expression, that tells this math story, showing the number of miles Peter ran. (Hint... the answer is the expression..... we don't need to know the number of miles he ran.)

- 10** Ella wants to evaluate the expression $6 \times (12 - 8) + 7$

Circle the 3 steps that Ella will need to use to evaluate the expression?

(Hint... Solve the problem yourself... carry everything down, showing your work. There are 3 steps needed to evaluate this expression.)

- Ⓐ Add 8 and 7.
- Ⓑ Add 24 and 7.
- Ⓒ Multiply 6 by 4.
- Ⓓ Multiply 6 by 12.
- Ⓔ Subtract 8 from 12.
- Ⓕ Subtract 8 from 72.