

Share and Show



Use the properties and mental math to solve.

1. $(2\frac{5}{8} + \frac{5}{6}) + 1\frac{1}{8}$

2. $\frac{5}{12} + (\frac{5}{12} + \frac{3}{4})$

3. $(3\frac{1}{4} + 2\frac{5}{6}) + 1\frac{3}{4}$

On Your Own

Use the properties and mental math to solve.

4. $(\frac{2}{7} + \frac{1}{3}) + \frac{2}{3}$

5. $(\frac{1}{5} + \frac{1}{2}) + \frac{2}{5}$

6. $(\frac{1}{6} + \frac{3}{7}) + \frac{2}{7}$

7. $(2\frac{5}{12} + 4\frac{1}{4}) + \frac{1}{4}$

8. $1\frac{1}{8} + (5\frac{1}{2} + 2\frac{3}{8})$

9. $\frac{5}{9} + (\frac{1}{9} + \frac{4}{5})$

10. Tina used $10\frac{1}{2}$ yards of yarn to make three yarn dolls. She used $4\frac{1}{2}$ yards of yarn for the first doll and $2\frac{1}{5}$ yards for the second doll. How much yarn did Tina use for the third doll?
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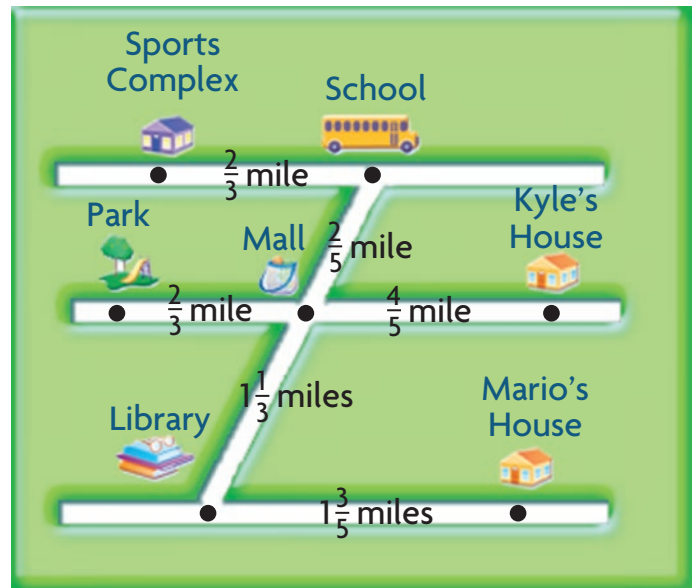
MTR 2.1 Demonstrate understanding in multiple ways.

How is solving Problem 3 different from solving Problem 1?

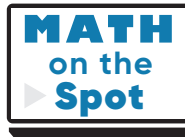
Problem Solving · Applications

Use the map to solve Problems 11 and 12.

11. Jules rides a bike from the sports complex to the school. Then Jules rides from the school to the mall, and then on to the library. Kyle rides his bike from his house to the mall, and then to the library. Who rides farther? How many miles farther?



12. On one afternoon, Mario walks from his house to the library. That evening, Mario walks from the library to the mall, and then to Kyle's house. Describe how you can use the properties to find how far Mario walks.



13. **MTR** Kyle is adding the distances between the school and the mall, the mall and the park, and the mall and his house. He writes $\frac{2}{5} + \frac{2}{3} + \frac{4}{5}$. Rewrite Kyle's expression using properties so the fractions are easier to add.

14. For 14a–14c, tell whether the Commutative Property or the Associative Property can be used to show that each equation is true without calculating. Choose the correct property of addition.

14a. $\frac{9}{10} + \left(\frac{3}{10} + \frac{5}{6}\right) = \left(\frac{9}{10} + \frac{3}{10}\right) + \frac{5}{6}$

Associative Property
Commutative Property

14b. $\left(\frac{3}{4} + \frac{1}{5}\right) + \frac{1}{4} = \left(\frac{1}{5} + \frac{3}{4}\right) + \frac{1}{4}$

Associative Property
Commutative Property

14c. $\left(3\frac{1}{2} + 2\frac{1}{8}\right) + 1\frac{5}{8} = 3\frac{1}{2} + \left(2\frac{1}{8} + 1\frac{5}{8}\right)$

Associative Property
Commutative Property