

Homework

1. Consider the division problem $\frac{1}{2} \div 3$.

Describe a situation this division could represent.

Draw a diagram to represent the division. Then find the solution.

Write an equation. Then solve.

Show your work.

2. A rectangle has an area of 12 square feet and a length of 5 feet. What is its width?

3. A tortoise must walk $\frac{1}{12}$ mile to visit a friend. He plans to break the journey into four equal parts with breaks in between. How long will each part of his journey be?

4. Harry worked 7 hours last week. This is $\frac{1}{3}$ as many hours as Aidan worked. How many hours did Aidan work?

5. Lin is a camp counselor. She is making small bags of trail mix for campers to take on a hike. She has 2 pounds of raisins and is putting $\frac{1}{8}$ pound in each bag. How many bags can she fill before she runs out of raisins?

6. Mr. Ramirez bought $\frac{1}{4}$ pounds of cashews. He divided the cashews equally among his three children. How much did each child get?

Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 1\frac{1}{8} \\ + 4\frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 6\frac{1}{4} \\ - 4\frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 9\frac{1}{3} \\ + 7\frac{8}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 5\frac{2}{7} \\ + 5\frac{11}{14} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 4 \\ - 2\frac{2}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 6\frac{5}{8} \\ + 3\frac{1}{2} \\ \hline \end{array}$$

Predict whether the product will be greater than, less than, or equal to the second factor. Then compute the product.

$$7. \quad \frac{5}{5} \cdot 9 = x$$

Predict: $x \bigcirc 9$

Compute: $x = \underline{\hspace{2cm}}$

$$8. \quad \frac{7}{8} \cdot 9 = x$$

Predict: $x \bigcirc 9$

Compute: $x = \underline{\hspace{2cm}}$

$$9. \quad 1\frac{3}{5} \cdot 9 = x$$

Predict: $x \bigcirc 9$

Compute: $x = \underline{\hspace{2cm}}$

$$10. \quad 1\frac{1}{2} \cdot \frac{4}{5} = x$$

Predict: $x \bigcirc \frac{4}{5}$

Compute: $x = \underline{\hspace{2cm}}$

$$11. \quad \frac{6}{6} \cdot \frac{4}{5} = x$$

Predict: $x \bigcirc \frac{4}{5}$

Compute: $x = \underline{\hspace{2cm}}$

$$12. \quad \frac{2}{5} \cdot \frac{4}{5} = x$$

Predict: $x \bigcirc \frac{4}{5}$

Compute: $x = \underline{\hspace{2cm}}$

Divide.

$$13. \quad 6 \div \frac{1}{4} = \underline{\hspace{2cm}}$$

$$14. \quad 2 \div 3 = \underline{\hspace{2cm}}$$

$$15. \quad 10 \div 3 = \underline{\hspace{2cm}}$$

$$16. \quad 200 \div \frac{1}{4} = \underline{\hspace{2cm}}$$

$$17. \quad \frac{1}{4} \div 8 = \underline{\hspace{2cm}}$$

$$18. \quad \frac{1}{7} \div 6 = \underline{\hspace{2cm}}$$

- 19. Stretch Your Thinking** Harrison is playing a board game that has a path of 100 spaces. After his first turn, he is $\frac{1}{5}$ of the way along the spaces. On his second turn, he moves $\frac{1}{4}$ fewer spaces than he moved on his first turn. On his third turn, he moves $1\frac{1}{4}$ times as many spaces than he moved on his first turn. What space is he on after three turns?
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