

Homework

Activity 1

Find the value of y in each algebraic equation.

1. $9 \div 9 = 10 - y$ $y = \underline{\hspace{2cm}}$

2. $9 \div 3 = 2 + y$ $y = \underline{\hspace{2cm}}$

3. $3 \cdot 10 = 40 - y$ $y = \underline{\hspace{2cm}}$

4. $y - 3 = 53 - 3$ $y = \underline{\hspace{2cm}}$

5. $16 \div 4 = 8 \div y$ $y = \underline{\hspace{2cm}}$

Activity 2

Select the best translation for each statement.

1. Ron's bicycle tire is flat. He fills the tire with air. Let F represent the pressure of the flat tire and P represent the pressure of the full tire. The pressure of a full tire is four times the pressure of the flat tire.

(a) $F = 4 \cdot P$

(b) $P = 4 \cdot F$

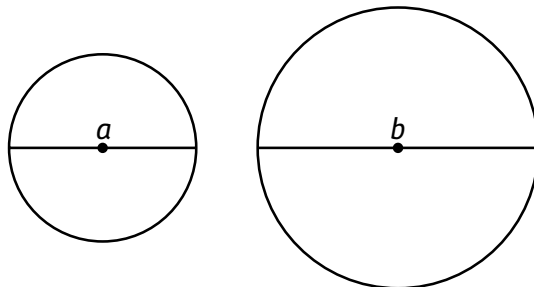
(c) $4 = F \cdot P$

2. The diameter of a small circle is a units, and the diameter of a large circle is b units. The diameter of the larger circle is two times the diameter of the smaller circle.

(a) $a = 2 \cdot b$

(b) $b = 2 \cdot a$

(c) $2 = a \cdot b$



3. Max buys a \$2 cup of coffee every morning on the way to work. Let c represent the total cost of the coffee and t represent the tax on the cup of coffee.

(a) $c = 2 + t$

(b) $c = 2 \cdot t$

(c) $2 = c + t$

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Activity 3

Answer the following questions about the parts and the whole.

Model

The units are ounces. What are the parts? What is the whole?

Milk	12	12	12
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Syrup	12	12
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Answer: There are 36 ounces of milk and 24 ounces of syrup, for a total of 60 ounces.

1. The units are ounces. What are the parts? What is the whole?

Ice cream	8
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Milk	8	8	8
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Answer:

2. The units are ounces. What are the parts? What is the whole?

Water	4	4	4	4
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Syrup	4	4	4
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Answer:

3. The units are ounces. What are the parts? What is the whole?

Juice	9	9	9
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Cola	9
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Answer:

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Activity 4 • Distributed Practice

Solve.

1. $1.4 \cdot 5.2$

2. $2.2 \div 1.1$

3. $3.04 \cdot 0.5$

4. $33.3 \cdot 1.2$

5. $\frac{7}{3} \cdot \frac{3}{7}$

6. $\frac{9}{5} \cdot \frac{9}{5}$

7. $\frac{1}{8} + \frac{3}{16}$

8. $\frac{7}{9} - \frac{2}{3}$

9. $-27 \div -3$

10. $-27 + -3$

11. $-27 - -3$

12. $-9 \cdot -3$