



**THIRD SPACE
LEARNING**

Multiplicative Comparison Worksheet

Number and Quantity

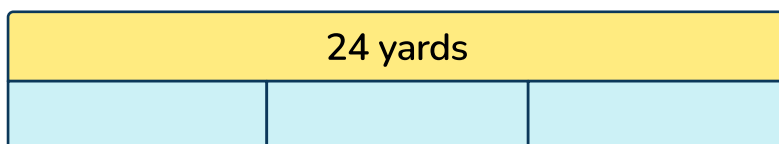
Grades 4 to 5

Skill Questions

Name:

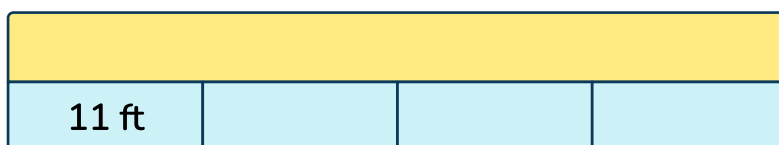
Date:

- 1 Teagan has 24 yards of wire. Yara has a third as much wire. How much wire does Yara have? Complete the model and solve.



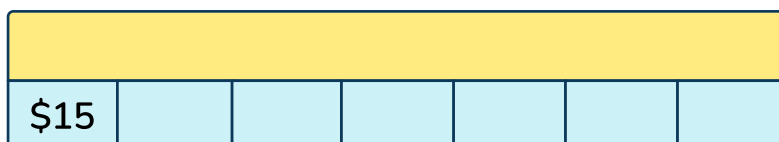
Answer

- 2 Lauren has 11 feet of fencing. Amir has four times as much fencing. How much fencing does Amir have? Complete the model and solve.



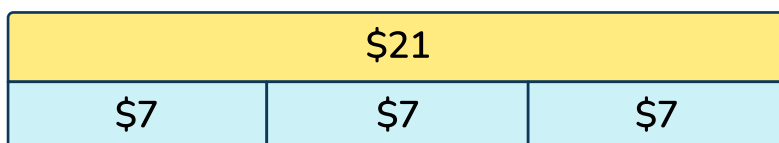
Answer

- 3 Nia raised \$15 last year. This year she raised seven times as much. How much money did Nia raise this year? Complete the model and solve.



Answer

- 4 A purple dress costs \$7. A green dress costs \$21.



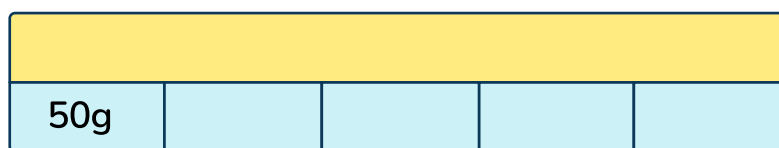
Complete the statements:

a) The green dress costs _____ times as much as the purple dress.

b) The purple dress costs _____ as much as the green dress.

Multiplicative Comparison Worksheet | Grades 4 to 5

- 5 A plum weighs 50 grams. An apple weighs 250 grams.
Complete the statements:



- a) The plum weighs _____ as much as the apple weighs.
- b) The apple weighs _____ times as much as the plum weighs.

-
- 6 Damian has 32 meters of string. Otto has $\frac{1}{8}$ of the string that Damian has.
How much string does Otto have?

Answer

-
- 7 A rubber toy stretches to 6 times the original length. If it stretches to 12 inches, what is the original length?

Answer

-
- 8 A small dog eats $\frac{1}{4}$ the amount of food as a large dog. If a small dog eats 108 grams, how many grams does a large dog eat?

Answer

Multiplicative Comparison Worksheet | Grades 4 to 5

- 9 Vincent planted 88 tomato plants. Then Vincent planted twice as many cucumber plants. Write an equation showing how many cucumber plants Vincent planted.

Answer

- 10 Joel is playing a game. He scored 210 points last time he played. This time he scored 3 times less. How many points did he score this time?

Answer

Applied Questions

- 11 A small dog eats $\frac{1}{3}$ the amount of food as a large dog. If a small dog eats 99 grams, how many grams do the small and large dog eat together?

Answer

- 12 Calvin is playing a game. Calvin scored 250 points in the first game. In the second game he scored four times more than the first time. What is the difference between the points Calvin scored the first and second time he played the game?

Answer

- 13 Delaney has 5 times as many marbles as Ace. Delaney has 25 marbles. How many marbles does Ace have?

Circle the equations that represent the scenario.

$5 \times 25 = 125$
 $5 \times \frac{1}{5} = 125$
 $5 \times 5 = 25$
 $25 \div 5 = 5$

Explain the equations.

Multiplicative Comparison Worksheet | Grades 4 to 5

- 14** Adira has 48 stickers. She gave her sister some and now has $\frac{1}{4}$ of the amount of stickers she started with. How many stickers does her sister have?

Circle the equations that represent the scenario.

$4 \times \frac{1}{4} = 1$

$48 \times \frac{1}{4} = 12$

$12 \times 4 = 48$

$4 \div 4 = 1$

Explain the equations.

-
- 15** Write a scenario that represents each equation.

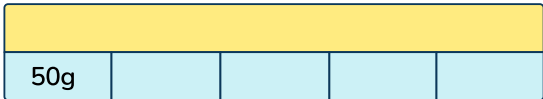
a) $100 \times \frac{1}{4} = 25$

b) $50 \times 9 = 450$

Answers

Question number	Question	Answers	Standard														
1	Teagan has 24 yards of wire. Yara has a third as much wire. How much wire does Yara have? Complete the model and solve. <table><tr><td colspan="3">24 yards</td></tr><tr><td></td><td></td><td></td></tr></table>	24 yards						8 yards	4.OA.A.2								
24 yards																	
2	Lauren has 11 feet of fencing. Amir has four times as much fencing. How much fencing does Amir have? Complete the model and solve. <table><tr><td colspan="4"></td></tr><tr><td>11 ft</td><td></td><td></td><td></td></tr></table>					11 ft				44 feet	4.OA.A.2						
11 ft																	
3	Nia raised \$15 last year. This year she raised seven times as much. How much money did Nia raise this year? Complete the model and solve. <table><tr><td colspan="7"></td></tr><tr><td>\$15</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								\$15							\$105	4.OA.A.2
\$15																	
4	A purple dress costs \$7. A green dress costs \$21. <table><tr><td colspan="3">\$21</td></tr><tr><td>\$7</td><td>\$7</td><td>\$7</td></tr></table> Complete the statements: a)The green dress costs _____ times as much as the purple dress. b) The purple dress costs _____ as much as the green dress.	\$21			\$7	\$7	\$7	a) The green dress costs 3 times as much as the purple dress. b) The purple dress costs $\frac{1}{3}$ as much as the green dress.	4.OA.A.2								
\$21																	
\$7	\$7	\$7															

Multiplicative Comparison Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
5	A plum weighs 50 grams. An apple weighs 250 grams.  Complete the statements: a) The plum weighs _____ as much as the apple weighs. b) The apple weighs _____ times as much as the plum weighs.	a) The plum weighs $\frac{1}{5}$ as much as the apple weighs. b) The apple weighs 5 times as much as the plum weighs.	4.OA.A.2
6	Damian has 32 meters of string. Otto has $\frac{1}{8}$ of the string that Damian has. How much string does Otto have?	4 feet	4.OA.A.2
7	A rubber toy stretches to 6 times the original length. If it stretches to 12 inches, what is the original length?	2 inches	4.OA.A.2
8	A small dog eats $\frac{1}{4}$ the amount of food as a large dog. If a small dog eats 108 grams, how many grams does a large dog eat?	432 grams	4.OA.A.2
9	Vincent planted 88 tomato plants. Then Vincent planted twice as many cucumber plants. Write an equation showing how many cucumber plants Vincent planted.	$88 \times 2 = 176$	4.OA.A.2
10	Joel is playing a game. He scored 210 points last time he played. This time he scored 3 times less. How many points did he score this time?	70	4.OA.A.2

Multiplicative Comparison Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
11	A small dog eats $\frac{1}{3}$ the amount of food as a large dog. If a small dog eats 99 grams, how many grams do the small and large dog eat together?	396 grams	4.OA.A.2
12	Calvin is playing a game. Calvin scored 250 points in the first game. In the second game he scored four times more than the first time. What is the difference between the points Calvin scored the first and second time he played the game?	750 points	4.OA.A.2
13	Delaney has 5 times as many marbles as Ace. Delaney has 25 marbles. How many marbles does Ace have? Circle the equations that represent the scenario. $5 \times 25 = 125$ $5 \times \frac{1}{5} = 125$ $5 \times 5 = 25$ $25 \div 5 = 5$ Explain the equations.	$5 \times 5 = 25$ $25 \div 5 = 5$ <i>Explanations may vary.</i> Example answer: Since Delaney has 5 times as many, Ace must have 5, because $5 \times 5 = 25$ and so 25 is 5 times as many as 5. This also means that Ace has 5 times less than Delaney, which is $25 \div 5 = 5$.	4.OA.A.2

Multiplicative Comparison Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
14	Adira has 48 stickers. She gave her sister some and now has $\frac{1}{4}$ of the amount of stickers she started with. How many stickers does her sister have? Circle the equations that represent the scenario. $4 \times \frac{1}{4} = 1$ $48 \times \frac{1}{4} = 12$ $12 \times 4 = 48$ $4 \div 4 = 1$ Explain the equations.	$48 \times \frac{1}{4} = 12$ $12 \times 4 = 48$ <i>Explanations may vary.</i> Example answer: Since Adira gave $\frac{1}{4}$ of her stickers to her sister and $\frac{1}{4}$ of 48 is $48 \times \frac{1}{4} = 12$. This means that Adira has 4 times as many stickers as her sister, $12 \times 4 = 48$.	4.OA.A.2
15	Write a scenario that represents each equation. a) $100 \times \frac{1}{4} = 25$ b) $50 \times 9 = 450$	<i>Scenarios will vary.</i> Example answers: a) Julie has 100 points. Kaylee has 4 times less points than Kayle. b) 4th grade students read 450 books last week. 5th grade students read $\frac{1}{9}$ as many books as 4th graders.	4.OA.A.2

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