Lesson: Multiplicative Comparisons

Practice Set: Translate a multiplication equation to a verbal statement

Question 1:

Translate the multiplication equation:

$35 = 5 \times 7$

Check all that are true.

☐ 5 is 7 times as many as 35
☐ 35 is 7 times as many as 5
☐ 35 is 5 times as many as 7
☐ 7 is 5 times as many as 35
☐ 5 is 35 times as many as 7

Question 2:

Translate the multiplication equation:

$24 = 4 \times 6$

Check all that are true.

☐ 24 is 4 times as many as 6
☐ 6 is 24 times as many as 4
☐ 6 is 4 times as many as 24
☐ 4 is 6 times as many as 24
☐ 24 is 6 times as many as 4

Question 3:

Translate the multiplication equation:

$22 = 2 \times 11$

Check all that are true.

☐ 2 is 11 times as many as 22
☐ 11 is 22 times as many as 2
☐ 2 is 22 times as many as 11
☐ 22 is 11 times as many as 2
☐ 22 is 2 times as many as 11
Question 4:

Translate the multiplication equation:

\[ 30 = 3 \times 10 \]

Check all that are true.

- [ ] 3 is 10 times as many as 30
- [ ] 10 is 3 times as many as 30
- [ ] 3 is 30 times as many as 10
- [ ] 30 is 3 times as many as 10
- [ ] 30 is 10 times as many as 3

Question 5:

Translate the multiplication equation:

\[ 15 = 3 \times 5 \]

Check all that are true.

- [ ] 3 is 15 times as many as 5
- [ ] 15 is 5 times as many as 3
- [ ] 3 is 5 times as many as 15
- [ ] 15 is 3 times as many as 5
- [ ] 5 is 15 times as many as 3

Practice Set: Write multiplication equations

Question 1:

If 20 plums are packed 5 to a bag, then write a multiplication equation to represent finding how many bags are needed?

- [ ] \( 5 = 20 \cdot b \)
- [ ] \( 20 = b \cdot 5 \)
- [ ] \( b = 5 \cdot 20 \)

Question 2:

Mary is saving up money to go on a trip. This month, she saved three times as much money as she saved last month. Last month, she saved $24.00. Write a multiplication equation to represent finding how much money Mary saved this month?

- [ ] \( m = (24)(3) \)
- [ ] \( 3 = (m)(24) \)
- [ ] \( 24 = (3)(m) \)
Question 3:
If 18 plums are shared equally into 3 bags, then write a multiplication equation to represent finding how many plums are in each bag.

- $18 = 3 \cdot p$
- $p = 18 \cdot 3$
- $3 = p \cdot 18$

Question 4:
A student grew two plants for the science fair. The first plant was 8 centimeters tall. The second plant was three times as tall. Write a multiplication equation to represent finding the height of the second plant.

- $h = (8)(3)$
- $3 = (h)(8)$
- $8 = (3)(h)$

Question 5:
A rabbit can go 2 feet in one jump. A kangaroo can go five times as far as a rabbit. Write a multiplication equation to represent finding how far a kangaroo goes in one jump.

- $5 = (k)(2)$
- $k = (2)(5)$
- $2 = (5)(k)$

Practice Set: Solve multiplicative comparison word problems

Question 1:
The shortest living man on Earth is 21 inches tall. The tallest living woman on Earth is approximately 4 times taller than the shortest man. How tall is the tallest living woman on Earth?

[ ] inches

Question 2:
The apartment rents for 3 times as much as it did 10 years ago. The apartment was $270 per month 10 years ago. How much does the apartment cost now?

$[ ] per month

Question 3:
A student could run 2 miles. After extensive training, the student could run five times as far as she could before the training. How far can the student run now?

[ ] miles
Question 4:
Amanda has 4 books about reptiles and 12 books about mammals. How many times more books does Amanda have about mammals than about reptiles?

______ times more books

Question 5:
The long climbing rope is 100 feet long. The long climbing rope is ten times longer than the shorter safety rope. How many feet of rope is the shorter safety rope?

______ feet
Correct Answers

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Practice Set: Translate a multiplication equation to a verbal statement

Question 1:
MC2 | MC3

Question 2:
MC1 | MC5

Question 3:
MC4 | MC5

Question 4:
MC4 | MC5

Question 5:
MC2 | MC4

Practice Set: Write multiplication equations

Question 1:
MC2

Question 2:
MC1

Question 3:
MC1

Question 4:
MC1

Question 5:
MC2

Practice Set: Solve multiplicative comparison word problems

Question 1:
84

Question 2:
810

Question 3:
10

Question 4:
3

Question 5:
10