Times as many vs. more than worksheet

4th grade math · Operations & Algebraic Thinking · 4.OA.A.2

Name _____ Date _____

For grown-ups: 9 times as many vs. more than problems, easier ones first. Let your child try each one alone, then check together with the answer key on page 2. Circle one answer where there are choices.

1. **Ava has 31 rocks. Omar has 15 more rocks than Ava. How many rocks does Omar have? Which operation solves it?**

   ○ + add ○ – subtract ○ × multiply ○ ÷ divide

2. **Omar's paper chain is 36 inches long. Diego's paper chain is 9 inches long. How many times as long as Diego's paper chain is Omar's? Which operation solves it?**

   ○ + add ○ – subtract ○ × multiply ○ ÷ divide

3. **Maya has 42 cards. That is 7 times as many as Ava has. How many cards does Ava have? What kind of story is this?**

   ○ Times as many (× or ÷)
   ○ More than (+ or –)

4. **Which equation means "16 is 2 times as many as 8"?**

   ○ 8 = 2 × 16 ○ 16 = 2 × 8
   ○ 2 = 16 × 8 ○ 16 = 2 + 8

5. **Mateo's scarf is 40 inches longer than Zoe's. Mateo's scarf is 44 inches long. How long is Zoe's scarf? Which number sentence matches the story?**

   ○ ? + 40 = 44 ○ ? – 44 = 40
   ○ ? – 40 = 44 ○ 44 + 40 = ?

6. **Eli has 55 seeds. Maya has 30 seeds. How many fewer seeds does Maya have than Eli? Which number sentence matches the story?**

   ○ 30 + ? = 55 ○ ? – 30 = 55
   ○ ? – 55 = 30 ○ 55 + 30 = ?

7. **The board game costs $28. The yo-yo costs $4. How many times as much as the yo-yo does the board game cost?**

   Answer: _____

8. **Maya's block tower is 98 centimeters tall. That is 7 times as tall as Kenji's. How tall is Kenji's block tower?**

   Answer: _____ cm

9. **Zoe's rope is 147 centimeters long. Diego's rope is 49 centimeters long. How much longer is Zoe's rope than Diego's?**

   Answer: _____ cm

Answer key: Times as many vs. more than

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1. **+ add**
   This is a compare story. 31 + 15 = 46.

2. **÷ divide**
   This is a times-as-many compare story. 36 ÷ 9 = 4, because 4 × 9 = 36.

3. **Times as many (× or ÷)**
   This is a times-as-many compare story. The word times is a clue, not a rule: 42 is the bigger amount, so divide. 42 ÷ 7 = 6.

4. **16 = 2 × 8**
   16 is 2 times as many as 8 means 2 copies of 8 make 16: 16 = 2 × 8. "16 is 2 more than 8" would be 16 = 2 + 8, which is not true.

5. **? + 40 = 44**
   4 + 40 = 44 is true, and it follows the story. This is a compare story. The word longer is a clue, not a rule: Mateo has the bigger amount. 44 – 40 = 4.

6. **30 + ? = 55**
   30 + 25 = 55 is true, and it follows the story. This is a compare story. 55 – 30 = 25.

7. **7**
   This is a times-as-many compare story. 28 ÷ 4 = 7, because 7 × 4 = 28.

8. **14 cm**
   This is a times-as-many compare story. The word times is a clue, not a rule: 98 is the bigger amount, so divide. 98 ÷ 7 = 14.

9. **98 cm**
   This is a compare story. 147 – 49 = 98.