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## 4.OA.A.2 Multiplication and Division Word Problems

4.OA.A.2: Multiply or divide to solve word problems involving multiplicative comparison.

1. A basketball team has 10 players. In a tournament, there are 4 teams. How many players are there in all?

   a. What do you have to find?

   Solution:

   b. Draw a picture to show the number of players in the tournament.

   Solution:

   c. Use repeated addition to show the number of players in the tournament.

   Solution:

   d. Does multiplication make it easy to solve the problem? How?

   Solution:

   e. How many players are there in the tournament?

   Solution:

2. There are 6 glasses on the table. Each glass can hold 8 ounces of liquid. How many ounces of liquid can all the glasses hold?

   Solution:

3. Isaac needs to buy 30 raffle tickets. They are packed by 5 tickets. How many packs does he need?

   Solution:

4. Bernard has $40 to spend in a toy store. There is an entrance fee of $4. Each toy car in the store costs $6. How many toy cars can Bernard buy?

   Solution:

5. If Joseph answers a question correctly, he gets 7 points. If he answers incorrectly, he loses 3 points. How many points will Joseph have if he correctly answered 5 questions and incorrectly answered 4 questions?

   Solution:

6. Which is another way to write $6 + 6 + 6 = 18$?
   A. $18 \div 6 = 3$      C. $3 \times 6 = 18$
   B. $18 - 6 - 6 - 6 = 0$   D. $18 \div 3 = 6$

   Solution:

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Answer Key

1. A basketball team has 10 players. In a tournament, there are 4 teams. How many players are there in all?

   a. What do you have to find?

   Solution:
   I have to find the number of players in the tournament.

   b. Draw a picture to show the number of players in the tournament.

   Solution:
   

   c. Use repeated addition to show the number of players in the tournament.

   Solution:
   $10 + 10 + 10 + 10 = 40$

   d. Does multiplication make it easy to solve the problem? How?

   Solution:
   Yes, $4 \times 10 = 40$

   e. How many players are there in the tournament?

   Solution:
   There are 40 players in the tournament.

2. There are 6 glasses on the table. Each glass can hold 8 ounces of liquid. How many ounces of liquid can all the glasses hold?

   Solution:
   $6 \times 8 = 48$; Answer: 48 ounces

3. Isaac needs to buy 30 raffle tickets. They are packed by 5 tickets. How many packs does he need?

   Solution:
   $30 \div 5 = 6$; Answer: 6 packs

4. Bernard has $40 to spend in a toy store. There is an entrance fee of $4. Each toy car in the store costs $6. How many toy cars can Bernard buy?

   Solution:
   $\$40 – \$4 = \$36$; $\$36 \div \$6 = 6$
   Answer: 6 toy cars

5. If Joseph answers a question correctly, he gets 7 points. If he answers incorrectly, he loses 3 points. How many points will Joseph have if he correctly answered 5 questions and incorrectly answered 4 questions?

   Solution:
   $5 \times 7 = 35$; $4 \times 3 = 12$
   $35 – 12 = 23$
   Answer: 23 points

6. Which is another way to write $6 + 6 + 6 = 18$?
   A. $18 \div 6 = 3$      C. $3 \times 6 = 18$
   B. $18 – 6 – 6 – 6 = 0$      D. $18 \div 3 = 6$

   Solution:
   C. $3 \times 6 = 18$