



Basketball Math Championship

Grade 8 Multi-Step Math Challenges

Name: _____ Date: _____

1 FRACTIONS OF A NUMBER

In the championship game, the Lions scored a certain number of points. Two-fifths of the points came from three-pointers, and three-tenths came from two-pointers. The remaining 27 points came from free throws. How many total points did they score?

Work:

Answer: _____

2 PLACE VALUE

A basketball merchandise shop has a four-digit total sales record. The thousands digit is 8, the hundreds digit is 5, and the tens digit is 4. If they make 135 dollars more in sales, the new total sales will be 8,680 dollars. What was the original ones digit of their sales?

Work:

Answer: _____

3 FRACTIONS OF A NUMBER

Coach Carter ordered basketball jerseys. One-fourth of them are red, one-half are blue, and the remaining 12 are green. How many total jerseys did the coach order?

Work:

Answer: _____

4 MISSING ADDENDS

Marcus wants to break the school season scoring record of 450 points. He scored 125 points in his first 8 games and averaged 18 points per game over the next 10 games. How many more points does he need to score to break the record?

Work:

Answer: _____

5 FRACTIONS OF A NUMBER

During a 40-minute basketball game, Sarah played three-fourths of the total time. If she played for 12 minutes in the first half of the game, how many minutes did she play in the second half?

Work:

Answer: _____

The booster club raised 600 dollars for the basketball team. They spent one-fourth of the money on new basketballs and one-third of the money on training cones. How much money is left for the team party?

Work:

Answer: _____

Answer Key

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1. In the championship game, the Lions scored a certain number of points. Two-fifths of the points came from three-pointers, and three-tenths came from two-pointers. The remaining 27 points came from free throws. How many total points did they score? **90**
2. A basketball merchandise shop has a four-digit total sales record. The thousands digit is 8, the hundreds digit is 5, and the tens digit is 4. If they make 135 dollars more in sales, the new total sales will be 8,680 dollars. What was the original ones digit of their sales? **5**
3. Coach Carter ordered basketball jerseys. One-fourth of them are red, one-half are blue, and the remaining 12 are green. How many total jerseys did the coach order? **48**
4. Marcus wants to break the school season scoring record of 450 points. He scored 125 points in his first 8 games and averaged 18 points per game over the next 10 games. How many more points does he need to score to break the record? **145**
5. During a 40-minute basketball game, Sarah played three-fourths of the total time. If she played for 12 minutes in the first half of the game, how many minutes did she play in the second half? **18**
6. The booster club raised 600 dollars for the basketball team. They spent one-fourth of the money on new basketballs and one-third of the money on training cones. How much money is left for the team party? **250**