PEP Grade 6 Math — Unit 4: Proportions • Unit Test (Basic)

PEP · Grade 6 · Term 2 · Mathematics · Unit Test · Basic

AI-generated practice paper · original study aid, not an official examination paper · 40 questions · 100 points

Name: _____ Date: _____ Score: _____

Answer all questions. This paper is worth 100 points. Show your working where appropriate.

I. Multiple Choice

1. Which of the following ratios is equivalent to 3:5?
   A. 6:10
   B. 9:15
   C. 12:20
   D. All of the above

2. If a car travels 120 km in 3 hours, what is its speed in km/h?
   A. 30
   B. 40
   C. 50
   D. 60

3. In a class, the ratio of boys to girls is 4:7. If there are 28 girls, how many boys are there?
   A. 16
   B. 20
   C. 24
   D. 28

4. Which pair of quantities forms a proportional relationship?
   A. Number of books and price per book
   B. Time spent walking and distance covered
   C. Number of workers and total work done if each works at different speed
   D. Age and height of a person

5. A recipe requires 2 cups of flour for every 3 cups of sugar. How many cups of sugar are needed for 8 cups of flour?
   A. 10
   B. 11
   C. 12
   D. 13

6. The ratio of red marbles to blue marbles is 5:9. If there are 45 blue marbles, how many red marbles are there?
   A. 20
   B. 25
   C. 30
   D. 35

7. Which fraction is equal to the ratio 1.5:3?
   A. 1/2
   B. 2/3
   C. 3/4
   D. 4/5

8. If 5 notebooks cost $10, how much do 8 notebooks cost?
   A. $14
   B. $15
   C. $16
   D. $18

9. Which of the following shows a direct proportion?
   A. Price of apples and number of apples bought
   B. Time to finish a task and number of people working
   C. Speed of a car and fuel consumption per hour