

Mixed Practice Worksheet — Grade 7 Math

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Integers

1. A submarine starts at -12 m (relative to sea level). It rises 7 m, then descends 9 m. What is its final depth?
2. Evaluate, showing your steps: $8 \times (-3) - 6$

Fractions, Decimals & Percents

3. Add and simplify: $\frac{2}{5} + \frac{1}{4}$
4. A meal costs \$90 before tip. If you leave a 15% tip, how much is the tip?

Ratios & Rates

5. A fruit punch recipe mixes juice and soda in a ratio of 3:5. If you use 12 cups of juice, how much soda do you need?
6. Three friends split the cost of 18 stickers evenly. If the whole pack costs \$9, how much does each friend pay?

Algebra

7. Solve for x , showing your steps: $2x + 3 = 17$

8. The perimeter of a rectangle is 54 cm. The length is 5 cm more than the width. Find the width and the length.

Geometry

9. Find the area of a rectangle with length 15 cm and width 7 cm.
10. Find the area of a triangle with base 12 cm and height 7 cm.
11. A circle has radius 6 cm. Find its area (use $\pi \approx 3.14$).

Statistics & Probability

12. Five students scored 65, 70, 70, 80, and 90 on a quiz. Find the mean score.
13. A spinner has 6 equal sections, 2 of which are red. What is the probability of landing on red? Write your answer as a fraction in lowest terms.

Mixed Word Problems

14. A jacket regularly \$120 is on sale for 30% off. What is the sale price?
15. A school choir has boys and girls in a ratio of 5:3. If there are 40 students total, how many are boys?

16. A community pool charges a \$4 entry fee plus \$3 per hour. Write an equation for the total cost (C) after h hours, then find how many hours you can swim if you have \$19.

17. A rectangular garden measures 9 m by 6 m. What is its perimeter?

18. Evaluate, showing your steps: $5 + 3 \times (9 - 4) - 6$

19. Solve the proportion: $\frac{4}{9} = \frac{x}{45}$

20. A store sells notebooks in packs of 8 for \$12, or individually for \$1.75 each. Which option is the better deal per notebook? Show your reasoning.