



EQAO Grade 6 Math Practice

Ontario Junior Division — Number Sense, Fractions, Algebra, Geometry & Data

Number Sense & Numeration

Whole numbers, decimals, fractions, ratios, and percent.

1. What is $\frac{3}{4} + \frac{2}{3}$?

- A) $\frac{5}{7}$
- B) $\frac{17}{12}$
- C) $\frac{5}{12}$
- D) $\frac{6}{7}$

2. Express 0.375 as a fraction in lowest terms.

- A) $\frac{375}{1000}$
- B) $\frac{3}{8}$
- C) $\frac{37}{100}$
- D) $\frac{75}{200}$

3. A store has a 25% off sale. A jacket costs \$60. What is the sale price?

- A) \$35
- B) \$40
- C) \$45
- D) \$50

4. Order these from least to greatest: 0.5, $\frac{3}{8}$, 0.45, $\frac{1}{2}$

- A) $\frac{3}{8}$, 0.45, 0.5, $\frac{1}{2}$
- B) 0.45, $\frac{3}{8}$, 0.5, $\frac{1}{2}$
- C) $\frac{3}{8}$, 0.45, $\frac{1}{2}$, 0.5
- D) 0.45, 0.5, $\frac{3}{8}$, $\frac{1}{2}$

5. The ratio of boys to girls in a class is 3:5. If there are 24 students total, how many are girls?



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Patterning & Algebra

Expressions, equations, and pattern rules.

6. Solve for n : $4n + 7 = 31$

- A) $n = 5$
- B) $n = 6$
- C) $n = 7$
- D) $n = 8$

7. The pattern rule is "start at 3, add 4 each time". What is the 10th term?

- A) 39
- B) 40
- C) 43
- D) 37

8. Write an expression for: "5 less than 3 times a number"

- A) $5 - 3n$
- B) $3n - 5$
- C) $3(n - 5)$
- D) $5n - 3$

9. A taxi charges \$3.50 base fare plus \$0.75 per kilometre. Write a formula for the total cost (C) for d kilometres. Then calculate the cost for a 12 km ride.



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Measurement

Area, volume, and unit conversions.

- 10.** A triangle has a base of 12 cm and a height of 8 cm. What is its area?
- A) 96 cm²
B) 48 cm²
C) 40 cm²
D) 20 cm²
- 11.** A rectangular prism is 5 cm long, 3 cm wide, and 4 cm tall. What is its volume?
- A) 12 cm³
B) 35 cm³
C) 47 cm³
D) 60 cm³
- 12.** Convert 3.5 km to metres.
- A) 35 m
B) 350 m
C) 3500 m
D) 35000 m
- 13.** A room measures 4.2 m by 3.8 m. How many square metres of carpet are needed to cover the floor? Show your work.



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Geometry & Spatial Sense

2D and 3D shapes, angles, and coordinate grids.

14. What is the sum of angles in a triangle?

- A) 90 degrees
- B) 180 degrees
- C) 270 degrees
- D) 360 degrees

15. A shape on a coordinate grid has vertices at (1,2), (4,2), (4,5), and (1,5). What shape is it?

- A) Triangle
- B) Parallelogram
- C) Rectangle
- D) Trapezoid

16. How many faces does a triangular prism have?

- A) 3
- B) 4
- C) 5
- D) 6

17. An angle measures 135 degrees. Is it acute, right, obtuse, or reflex? Explain how you know.



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Data Management & Probability

Mean, median, mode, graphs, and probability.

18. Find the mean of: 12, 15, 18, 21, 24

- A) 15
- B) 18
- C) 20
- D) 21

19. A bag contains 3 red, 5 blue, and 2 green marbles. What is the probability of drawing a blue marble?

- A) $\frac{3}{10}$
- B) $\frac{5}{10}$
- C) $\frac{2}{10}$
- D) $\frac{5}{8}$

20. The median of 7, 3, 9, 1, 5 is:

- A) 3
- B) 5
- C) 7
- D) 9

21. A survey asked 60 students their favourite sport. Soccer: 18, Basketball: 22, Hockey: 12, Other: 8. What percentage chose Basketball?



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