



EQAO Grade 6 Math Practice — Answer Key

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) $\frac{17}{12}$ [CORRECT]

C) $\frac{5}{12}$

D) $\frac{6}{7}$

2. Express 0.375 as a fraction in lowest terms.

A) $\frac{375}{1000}$

B) $\frac{3}{8}$ [CORRECT]

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 [CORRECT]

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, $\frac{1}{2}$ [CORRECT]

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?

Answer: 15 girls. Ratio 3:5 means 8 parts total. $24 \div 8 = 3$ per part. Girls = $5 \times 3 = 15$.



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Patterning & Algebra

Expressions, equations, and pattern rules.

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

A) $n = 5$

B) $n = 6$ [CORRECT]

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 [CORRECT]

B) 40

C) 43

D) 37

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

A) $5 - 3n$

B) $3n - 5$ [CORRECT]

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.

Answer: $C = 3.50 + 0.75d$. For 12 km: $C = 3.50 + 0.75(12) = 3.50 + 9.00 = \12.50



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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 [CORRECT]

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 [CORRECT]

12. Convert 3.5 km to metres.

A) 35 m

B) 350 m

C) 3500 m [CORRECT]

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.

Answer: Area = $4.2 \times 3.8 = 15.96$ m². You need 15.96 m² of carpet.



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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 [CORRECT]**
- 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 [CORRECT]**
- D) Trapezoid

16. How many faces does a triangular prism have?

- A) 3
- B) 4
- C) 5 [CORRECT]**
- D) 6

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

Answer: Obtuse. An obtuse angle is greater than 90 degrees but less than 180 degrees. Since $90 < 135 < 180$, it is obtuse.



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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 [CORRECT]

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) $\frac{5}{10}$ [CORRECT]

C) $\frac{2}{10}$

D) $\frac{5}{8}$

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

A) 3

B) 5 [CORRECT]

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?

Answer: $\frac{22}{60} \times 100 = 36.7\%$ (approximately 37%)



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