Year 6 maths worksheet

Year 6 | KS2

Name _____ Class _____ Date _____ Score _____ / 24

Show your working in the space and write each answer in the box. A calculator is not needed. Give fractions in their simplest form.

Example: 3/5 of 40 = 24. Find one fifth by dividing by 5 (40 ÷ 5 = 8), then multiply by 3 (8 × 3 = 24).

Section A · Number and calculation

1. Round 4,672,519 to the nearest hundred thousand.

Answer

2. The temperature is −6 °C. It rises by 11 °C. What is the new temperature?

Answer

3. $3 + 4 \times 6 - 2 =$

Answer

4. $2436 \times 15 =$

Answer

5. $7488 \div 24 =$

Answer

6. $\frac{3}{4} + \frac{2}{3} =$

Answer

7. $\frac{2}{5} \times \frac{3}{4} =$

Answer

8. $\frac{3}{8} \div 3 =$

Answer

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Section B · Fractions, decimals, percentages and ratio

9. Work out 35% of 260.

Answer

10. Write $\frac{7}{8}$ as a decimal.

Answer

11. $4.6 \times 0.3 =$

Answer

12. Order from smallest to largest: 0.45, $\frac{2}{5}$, 47%, 0.405

Answer

13. Share 56 sweets in the ratio 3 : 5.

Answer

14. A recipe for 4 people uses 300 g of flour. How much flour is needed for 10 people?

Answer

15. List all the common factors of 24 and 36.

Answer

16. Which of these numbers is prime: 51, 57, 59, 63?

Answer

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Section C · Algebra, measures, geometry and statistics

17. If n = 7, work out 5n − 12.

Answer

18. 3a + 4 = 31. Find the value of a.

Answer

19. The sequence 4, 11, 18, 25, … goes up by 7 each time. What is the 10th term?

Answer

20. Convert 3.25 km to metres.

Answer

21. Find the area of a triangle with base 9 cm and perpendicular height 6 cm.

Answer

22. Find the volume of a cuboid 5 cm long, 4 cm wide and 3 cm high.

Answer

23. Two angles in a triangle are 48° and 75°. Find the third angle.

Answer

24. Find the mean of 12, 15, 9, 18 and 16.

Answer

Year 6 maths worksheet · answers

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Check each answer and its method. Equivalent forms are correct unless a question asks for a particular form or degree of accuracy.

Section A · Number and calculation

1. **4,700,000**

The hundred thousands digit is 6; the next digit is 7, so round up to 4,700,000.

2. **5 °C**

Count up from −6: 6 degrees takes you to 0, then 5 more to 5 °C.

3. **25**

Multiply first: 4 × 6 = 24. Then 3 + 24 − 2 = 25.

4. **36,540**

Long multiplication: 2436 × 5 = 12,180 and 2436 × 10 = 24,360; 12,180 + 24,360 = 36,540.

5. **312**

Long division: 74 ÷ 24 = 3 r 2, 28 ÷ 24 = 1 r 4, 48 ÷ 24 = 2.

6. **1 5/12**

Common denominator 12: 9/12 + 8/12 = 17/12 = 1 5/12.

7. **3/10**

Multiply the numerators and the denominators: 6/20, which simplifies to 3/10.

8. **1/8**

Dividing by 3 shares the 3 eighths into 3 equal parts: 1/8 each.

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Section B · Fractions, decimals, percentages and ratio

9. **91**

10% = 26, so 30% = 78 and 5% = 13. 78 + 13 = 91.

10. **0.875**

1/8 = 0.125, so 7/8 = 7 × 0.125 = 0.875.

11. **1.38**

46 × 3 = 138. There are two decimal places in the question, so the answer is 1.38.

12. **2/5, 0.405, 0.45, 47%**

As decimals: 0.4, 0.405, 0.45, 0.47.

13. **21 and 35**

3 + 5 = 8 parts. 56 ÷ 8 = 7, so 3 × 7 = 21 and 5 × 7 = 35.

14. **750 g**

For 1 person: 300 ÷ 4 = 75 g. For 10 people: 75 × 10 = 750 g.

15. **1, 2, 3, 4, 6 and 12**

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24. Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36.

16. **59**

51 = 3 × 17, 57 = 3 × 19 and 63 = 7 × 9, but 59 has no factors except 1 and itself.

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Section C · Algebra, measures, geometry and statistics

17. 23

5 × 7 = 35, and 35 − 12 = 23.

18. a = 9

Take away 4: 3a = 27. Divide by 3: a = 9.

19. 67

From the 1st term to the 10th term is 9 steps of 7: 4 + 63 = 67.

20. 3250 m

1 km = 1000 m, so 3.25 × 1000 = 3250 m.

21. 27 cm²

Area = ½ × base × height = ½ × 9 × 6 = 27 cm².

22. 60 cm³

Volume = length × width × height = 5 × 4 × 3 = 60 cm³.

23. 57°

Angles in a triangle add up to 180°: 180 − 48 − 75 = 57°.

24. 14

Total = 70. There are 5 numbers, so 70 ÷ 5 = 14.