Year 5 maths worksheet

Year 5 | 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: 2/5 of 35 = 14. Find one fifth by dividing by 5 (35 ÷ 5 = 7), then multiply by 2 (7 × 2 = 14).

Section A · Number and calculation

1. Round 284,617 to the nearest 10,000.

Answer

2. What is the value of the 4 in 3,045,182?

Answer

3. The temperature is 4 °C. It falls by 9 °C. What is the new temperature?

Answer

4. 3.7 × 100 =

Answer

5. 4825 ÷ 1000 =

Answer

6. 47,385 − 18,926 =

Answer

7. 3264 × 23 =

Answer

8. 1563 ÷ 6 =

Answer

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Section B · Factors, fractions, decimals and percentages

9. Work out $7^2 + 2^3$.

Answer

10. Which of these numbers are prime: 21, 23, 27, 29?

Answer

11. Write $\frac{17}{5}$ as a mixed number.

Answer

12. $\frac{2}{3} + \frac{5}{6} =$

Answer

13. $4 \times \frac{2}{5} =$

Answer

14. Write 0.35 as a fraction in its simplest form.

Answer

15. Order from smallest to largest: 0.6, 0.065, 0.56, 0.506

Answer

16. Find 20% of 65.

Answer

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Section C · Measures and geometry

17. Convert 2.4 litres to millilitres.

Answer

18. A film starts at 14:35 and lasts 1 hour 50 minutes. What time does it finish?

Answer

19. A square has a perimeter of 36 cm. What is its area?

Answer

20. A cuboid is built from centimetre cubes. It is 5 cubes long, 3 cubes wide and 2 cubes high. What is its volume?

Answer

21. Two angles on a straight line are 117° and x. Find x.

Answer

22. Three angles around a point are 120°, 95° and y. Find y.

Answer

23. Is an angle of 235° acute, obtuse or reflex?

Answer

24. Pens cost £1.35 each. How much do 6 pens cost?

Answer

Year 5 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. **280,000**

The ten thousands digit is 8 and the next digit is 4, which is less than 5, so round down to 280,000.

2. **40,000**

The 4 is in the ten thousands place, so it is worth 40,000.

3. **−5 °C**

Count down 4 degrees to 0, then 5 more to −5 °C.

4. **370**

Multiplying by 100 moves each digit two places to the left: 3.7 becomes 370.

5. **4.825**

Dividing by 1000 moves each digit three places to the right: 4825 becomes 4.825.

6. **28,459**

Column subtraction with exchanging. Check: 28,459 + 18,926 = 47,385.

7. **75,072**

Long multiplication: 3264 × 3 = 9792 and 3264 × 20 = 65,280. 9792 + 65,280 = 75,072.

8. **260 r 3**

Short division: 15 ÷ 6 = 2 r 3, 36 ÷ 6 = 6, 3 ÷ 6 = 0 r 3. Check: 260 × 6 + 3 = 1563.

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Section B · Factors, fractions, decimals and percentages

9. **57**

$7^2 = 7 \times 7 = 49$ and $2^3 = 2 \times 2 \times 2 = 8$. 49 + 8 = 57.

10. **23 and 29**

21 = 3 × 7 and 27 = 3 × 9, but 23 and 29 have no factors except 1 and themselves.

11. **3 2/5**

17 ÷ 5 = 3 remainder 2, so 17/5 = 3 2/5.

12. **1 1/2**

Change 2/3 to 4/6. 4/6 + 5/6 = 9/6 = 1 3/6 = 1 1/2.

13. **1 3/5**

4 lots of 2 fifths is 8 fifths. 8/5 = 1 3/5.

14. **7/20**

0.35 = 35/100. Divide the numerator and denominator by 5: 7/20.

15. **0.065, 0.506, 0.56, 0.6**

Write each with three decimal places: 0.600, 0.065, 0.560, 0.506, then compare.

16. **13**

20% = 1/5. 65 ÷ 5 = 13.

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Section C · Measures and geometry

17. 2400 ml

1 litre = 1000 ml, so 2.4 × 1000 = 2400 ml.

18. 16:25

14:35 + 1 hour = 15:35. Then add 50 minutes: 25 minutes takes you to 16:00 and 25 more to 16:25.

19. 81 cm²

Each side is 36 ÷ 4 = 9 cm. Area = 9 × 9 = 81 cm².

20. 30 cm³

5 × 3 = 15 cubes in each layer, and there are 2 layers: 15 × 2 = 30 cm³.

21. 63°

Angles on a straight line add up to 180°: 180 − 117 = 63°.

22. 145°

Angles around a point add up to 360°: 360 − 120 − 95 = 145°.

23. Reflex

An angle bigger than 180° and smaller than 360° is reflex.

24. £8.10

6 × £1 = £6 and 6 × 35p = 210p = £2.10. £6 + £2.10 = £8.10.