

Year 6 mental maths worksheet

Year 6 | Upper KS2

Name _____ Class _____ Date _____

Score _____ / 24

Work each answer out in your head where you can and write it in the box. Jot down working if it helps.

Example: 20% of 150 = 30. Find 10% (15), then double it.

Section A · Quick recall

1. $7500 + 299 =$

2. $5000 - 1998 =$

3. $0.75 + 0.6 =$

4. $4.2 - 1.75 =$

5. $125 \times 8 =$

6. 840 divided by 12 =

7. 3.6 divided by 0.1 =

8. $0.08 \times 1000 =$

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Section B · Connect the facts

9. 15% of 240.

Answer

10. 75% of 80.

Answer

11. $\frac{2}{3}$ of 45.

Answer

12. $\frac{1}{2} + \frac{1}{3} =$ (give a fraction).

Answer

13. $\frac{3}{4} \times \frac{2}{3} =$ (give a fraction).

Answer

14. $\frac{3}{5}$ divided by 3 = (give a fraction).

Answer

15. $6 + 4 \times 3 =$

Answer

16. $(18 - 6)$ divided by 3 =

Answer

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Section C · Apply in context

17. Mean of 6, 8, 10 and 12.

Answer

18. Simplify 12:18. Give the first number in the ratio __:3.

Answer

19. Next number: -3, 1, 5, __.

Answer

20. If $5x = 35$, find x .

Answer

21. Share 40 sweets in ratio 3:5. How many in the smaller share?

Answer

22. A £60 item has a 10% discount. New price in pounds?

Answer

23. A 10 cm by 4 cm by 3 cm cuboid: volume in cm^3 ?

Answer

24. A 150 km journey takes 3 hours. Average speed in km/h?

Answer

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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 · Quick recall

1. 7799

$7500 + 299 = 7799$. Use known facts or partition the numbers.

2. 3002

$5000 - 1998 = 3002$. Use known facts or partition the numbers.

3. 1.35

$0.75 + 0.6 = 1.35$. Use known facts or partition the numbers.

4. 2.45

$4.2 - 1.75 = 2.45$. Use known facts or partition the numbers.

5. 1000

$125 \times 8 = 1000$. Use known facts or partition the numbers.

6. 70

$840 \text{ divided by } 12 = 70$. Use known facts or partition the numbers.

7. 36

$3.6 \text{ divided by } 0.1 = 36$. Use known facts or partition the numbers.

8. 80

$0.08 \times 1000 = 80$. Use known facts or partition the numbers.

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Section B · Connect the facts

9. 36

Ten percent is twenty-four; five percent is twelve.

10. 60

Three quarters of eighty.

11. 30

Divide by three then double.

12. $\frac{5}{6}$

Three sixths plus two sixths.

13. $\frac{1}{2}$

Multiply to get six twelfths, then simplify.

14. $\frac{1}{5}$

Divide the numerator by three.

15. 18

Multiply before adding.

16. 4

Complete brackets first.

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Section C · Apply in context

17. 9

Sum thirty-six, divide by four.

18. 2

Divide both terms by six.

19. 9

Add four each time.

20. 7

Divide both sides by five.

21. 15

Eight parts means five sweets per part; take three.

22. 54

Subtract six pounds.

23. 120

Multiply its three dimensions.

24. 50

Distance divided by time.
