



ANSWERS & MARK SCHEME

Year 6 Arithmetic Practice Paper 2

40 marks. Each row states what earns the mark for that question — where equivalents are acceptable (a fraction in another form, or the matching decimal) the notes say so. An answer written outside the box that is clearly the child's final answer still earns the mark.

Q	Answer	Marks	Notes
1	4,443	1	
2	8,177	1	
3	72	1	
4	10,103	1	
5	9	1	
6	8,600	1	
7	1,966	1	
8	$\frac{5}{9}$	1	
9	4.2	1	
10	8.28	1	
11	36	1	
12	7,780	1	
13	5,292	1	
14	138	1	
15	205	1	
16	21	1	
17	819	1	
18	$1\frac{1}{4}$	1	Accept $\frac{5}{4}$ or 1.25.



Q	Answer	Marks	Notes
19	40	1	
20	11,220	1	
21	54,459	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
22	$\frac{1}{2}$	1	Accept 0.5.
23	4.21	1	
24	$\frac{1}{36}$	1	
25	$1\frac{11}{12}$	1	Accept $\frac{23}{12}$.
26	61	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
27	108	1	
28	100	1	
29	$\frac{1}{20}$	1	Accept 0.05.
30	15.75	1	
31	202,986	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
32	$\frac{5}{24}$	1	
33	90	1	
34	9,372	1	
35	24	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
36	$1\frac{13}{20}$	1	Accept $\frac{33}{20}$ or 1.65.



HOW TO WORK THEM OUT

8 $\frac{3}{9} + \frac{2}{9} = \frac{5}{9}$

Add the fractions on one bar

$\frac{3}{9}$ (coral) + $\frac{2}{9}$ (teal) = $\frac{5}{9}$



Answer: $\frac{5}{9}$

14 $\frac{1}{8}$ of 1,104 = 138

Fraction of an amount as a bar model

1,104 split into 8 equal parts
each part = $1,104 \div 8 = 138$



1 part shaded = 138

16 $117 - 24 \times 4 = 21$

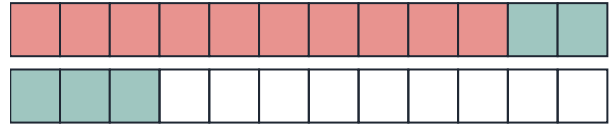
Order of operations

Brackets, then $\times$ and $\div$, then $+$ and $-$. Answer: **21**.

18 $\frac{5}{6} + \frac{5}{12} = 1\frac{1}{4}$

Add the fractions on one bar

$\frac{5}{6} = \frac{10}{12}$ (coral) $\frac{5}{12} = \frac{5}{12}$ (teal) $\rightarrow \frac{15}{12}$ altogether



Answer: $1\frac{1}{4}$



19 $10\% \text{ of } 400 = 40$

Percentages from 10% and 1% chunks

whole bar = 400, each section = $10\% = 40$



$10\% = 40$

$1 \times 10\% = 1 \times 40 = 40$

21 $2,017 \times 27 = 54,459$

Long multiplication, shown as partial products

Split 27 into $20 + 7$:

$2,017 \times 7 = 14,119$

$2,017 \times 20 = 40,340$

add them = **$54,459$**

Award 1 of the 2 marks for a correct formal method with a single arithmetic slip.

26 $1,708 \div 28 = 61$

Long division, shown as chunks of the divisor

$28 \times 60 = 1,680$ leaves 28

$28 \times 1 = 28$ leaves 0

$60 + 1 = 61$

Award 1 of the 2 marks for a correct formal method with a single arithmetic slip.

27 $20\% \text{ of } 540 = 108$

Percentages from 10% and 1% chunks

whole bar = 540, each section = $10\% = 54$



$20\% = 108$

$2 \times 10\% = 2 \times 54 = 108$



28 $90 + (25 + 15) \div 4 = 100$

Order of operations

Brackets, then $\times$ and $\div$, then $+$ and $-$. Answer: **100**.

31 $4,833 \times 42 = 202,986$

Long multiplication, shown as partial products

Split 42 into $40 + 2$:

$$4,833 \times 2 = 9,666$$

$$4,833 \times 40 = 193,320$$

$$\text{add them} = 202,986$$

Award 1 of the 2 marks for a correct formal method with a single arithmetic slip.

33 $12\% \text{ of } 750 = 90$

Percentages from 10% and 1% chunks

whole bar = 750, each section = $10\% = 75$



12% = 90

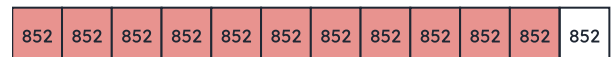
$$1 \times 10\% + 2 \times 1\% = 1 \times 75 + 2 \times 7.5 = 90$$

34 $\frac{11}{12} \text{ of } 10,224 = 9,372$

Fraction of an amount as a bar model

10,224 split into 12 equal parts

$$\text{each part} = 10,224 \div 12 = 852$$



11 parts shaded = 9,372



35 $960 \div 40 = 24$

Long division, shown as chunks of the divisor

$$40 \times 20 = 800 \text{ leaves } 160$$

$$40 \times 4 = 160 \text{ leaves } 0$$

$$20 + 4 = \mathbf{24}$$

Award 1 of the 2 marks for a correct formal method with a single arithmetic slip.

36 $3 \frac{2}{5} - 1 \frac{3}{4} = 1 \frac{13}{20}$

Subtracting mixed numbers: improper fractions first

$$\begin{array}{rcl} 3 \frac{2}{5} & = & \frac{68}{20} \\ 1 \frac{3}{4} & = & \frac{35}{20} \end{array} \quad \text{common denominator } 20$$

$$\frac{68}{20} - \frac{35}{20} = \frac{33}{20} = \mathbf{1 \frac{13}{20}}$$