ANSWERS & MARK SCHEME

Year 6 Arithmetic Practice Paper 1

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	**5,548**	1	
2	**4,493**	1	
3	**144**	1	
4	**11,866**	1	
5	**9**	1	
6	**66,000**	1	
7	**1,806**	1	
8	$\frac{5}{9}$	1	
9	**13.1**	1	
10	**6.13**	1	
11	**121**	1	
12	**6,645**	1	
13	**3,252**	1	
14	**198**	1	
15	**922**	1	
16	**80**	1	
17	**386**	1	
18	$1\frac{5}{12}$	1	Accept $\frac{17}{12}$.

Q	Answer	Marks	Notes
19	**22**	1	
20	**22,195**	1	
21	**88,155**	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
22	$\frac{1}{8}$	1	Accept 0.125.
23	**3.62**	1	
24	$\frac{5}{24}$	1	
25	$3\frac{5}{8}$	1	Accept $\frac{29}{8}$ or 3.625.
26	**86**	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
27	**180**	1	
28	**134**	1	
29	$\frac{5}{24}$	1	
30	**30.38**	1	
31	**142,623**	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
32	$\frac{5}{24}$	1	
33	**120**	1	
34	**3,815**	1	
35	**58**	2	2 marks for the correct answer; 1 mark for a correct formal method with one arithmetic error.
36	$1\frac{7}{12}$	1	Accept $\frac{19}{12}$.

HOW TO WORK THEM OUT

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

Add the fractions on one bar

$^{2}/_{9}$ (coral) + $^{3}/_{9}$ (teal) = $^{5}/_{9}$

Answer: **5/9**

14 $\frac{1}{4}$ of 792 = 198

Fraction of an amount as a bar model

792 split into 4 equal parts
each part = 792 ÷ 4 = 198

1 part shaded = 198

16 248 − 28 × 6 = 80

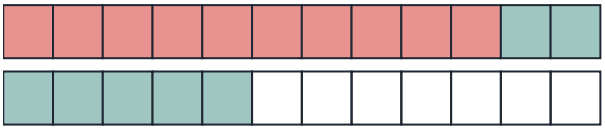
Order of operations

Brackets, then × and ÷, then + and −. Answer: **80**.

18 $\frac{5}{6} + \frac{7}{12} = 1\frac{5}{12}$

Add the fractions on one bar

$^{5}/_{6} = {}^{10}/_{12}$ (coral) $^{7}/_{12} = {}^{7}/_{12}$ (teal) → $^{17}/_{12}$ altogether



Answer: **1 5/12**

19 25% of 88 = 22

Percentages from 10% and 1% chunks

whole bar = 88, each section = 10% = 8.8

25% = 22

2 × 10% + 5 × 1% = 2 × 8.8 + 5 × 0.88 = **22**

21 3,265 × 27 = 88,155

Long multiplication, shown as partial products

Split 27 into 20 + 7:

3,265 × 7 = 22,855

3,265 × 20 = 65,300

add them = **88,155**

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

26 2,494 ÷ 29 = 86

Long division, shown as chunks of the divisor

29 × 80 = 2,320 leaves 174

29 × 6 = 174 leaves 0

80 + 6 = **86**

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

27 45% of 400 = 180

Percentages from 10% and 1% chunks

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

45% = 180

4 × 10% + 5 × 1% = 4 × 40 + 5 × 4 = **180**

28 127 + (20 + 15) ÷ 5 = 134

Order of operations

Brackets, then × and ÷, then + and −. Answer: **134**.

31 3,657 × 39 = 142,623

Long multiplication, shown as partial products

Split 39 into 30 + 9:

3,657 × 9 = 32,913

3,657 × 30 = 109,710

add them = **142,623**

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

33 24% of 500 = 120

Percentages from 10% and 1% chunks

whole bar = 500, each section = 10% = 50

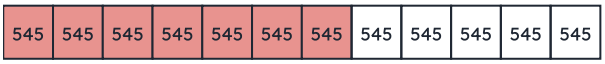
24% = 120

2 × 10% + 4 × 1% = 2 × 50 + 4 × 5 = **120**

34 $\frac{7}{12}$ of 6,540 = 3,815

Fraction of an amount as a bar model

6,540 split into 12 equal parts
each part = 6,540 ÷ 12 = 545



7 parts shaded = 3,815

35 **2,552 ÷ 44 = 58**

Long division, shown as chunks of the divisor

44 × 50 = 2,200 leaves 352

44 × 8 = 352 leaves 0

50 + 8 = **58**

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

36 **$3\frac{1}{4} - 1\frac{2}{3} = 1\frac{7}{12}$**

Subtracting mixed numbers: improper fractions first

$3\,{}^{1}/_{4} = {}^{39}/_{12}$

$1\,{}^{2}/_{3} = {}^{20}/_{12}$ common denominator 12

${}^{39}/_{12} - {}^{20}/_{12} = {}^{19}/_{12} =$ **1 7/12**