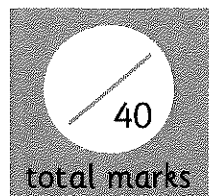
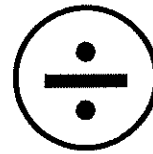
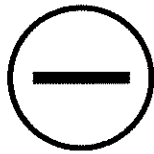


Year 6

Mathematics

Arithmetic: Paper 4

Name	
Date	



1

$168 \div 8 =$

$$\begin{array}{r} 021 \\ 8 \overline{) 168} \\ \underline{8} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

21

1 mark

2

$97 + 10 =$

$$\begin{array}{r} 97 \\ + 10 \\ \hline 107 \end{array}$$

107

1 mark

3

$251 \times 3 =$

$$\begin{array}{r} 251 \\ \times 3 \\ \hline 753 \\ 1 \end{array}$$

753

1 mark

Total for this page

4

$9.6 - 0.4 =$

decimals in line

$$\begin{array}{r} 9.6 \\ - 0.4 \\ \hline 9.2 \end{array}$$

9.2

1 mark

5

$\boxed{} = 7092 + 582$

$$\begin{array}{r} 7092 \\ + 582 \\ \hline 7674 \end{array}$$

7674

1 mark

6

$812 - 80 =$

$$\begin{array}{r} 812 \\ - 80 \\ \hline 732 \end{array}$$

732

1 mark

Total for this page

10

$$5 \times 9 \times 2 =$$

$$\begin{array}{r} \cancel{5} \times \cancel{9} \times 2 \\ 45 \times 2 \\ 90 \end{array}$$

$$\begin{array}{r} 45 \\ \times 2 \\ \hline 90 \\ + \end{array}$$

90

1 mark

11

$$93.01 \div 10 = \text{one space to right}$$

$$\begin{array}{r} 93.01 \\ 9.301 \end{array}$$

9.301

1 mark

12

$$2^3 + 4 = 2 \times 2 \times 2$$

$$\begin{array}{r} \cancel{2}^3 + 4 \\ 8 + 4 \\ 12 \end{array}$$

12

1 mark

Total for
this page

13

$$\underline{720} \div \underline{8} =$$

use times tables knowledge.

$$8 \times ? = 72$$

9

$$8 \times 9 = 72$$

$$8 \times 90 = 720$$

90

1 mark

14

$$5621 - 1421 =$$

$$\begin{array}{r} 5621 \\ - 1421 \\ \hline 4200 \end{array}$$

4200

1 mark

15

$$\frac{4}{11} - \frac{3}{11} =$$

same denominators.

$$\frac{4}{11} - \frac{3}{11} = \frac{1}{11}$$

 $\frac{1}{11}$

1 mark

Total for this page

16

$$1000 \times 4.56 =$$

3 spaces to left

$$\begin{array}{r} 4.56 \\ 4560 \end{array}$$

4560

1 mark

17

$$21.64 \times 4 =$$

$$\begin{array}{r} 21.64 \\ \times 4 \\ \hline 86.56 \end{array}$$

86.56

1 mark

18

$$90\,000 + 10\,872 =$$

$$\begin{array}{r} 90\,000 \\ + 10\,872 \\ \hline 100\,872 \end{array}$$

100872

1 mark

Total for
this page

19

$$25\% \text{ of } 4200 =$$

20 5

or

$$10\% = 420 \text{ (divided by 10)}$$

$$5\% = 210 \text{ (half 10\%)}$$

$$20\% = 840 \text{ (x 10\% by 2)}$$

$$25\% = 1050 \text{ (add 5\% to 20\%)}$$

1050

1 mark

20

$$8400 \div 12 =$$

2 zeros

12 x table knowledge.

12, 24, 36, 48, 60, 72, 84

7 add two zeros = 700

or

$$\begin{array}{r} 0700 \\ 12 \overline{) 8400} \end{array}$$

700

1 mark

21

$$15 - 8.1 =$$

line up decimals
place holder

$$\begin{array}{r} 15.0 \\ - 8.1 \\ \hline 6.9 \end{array}$$

6.9

1 mark

Total for
this page

22

$$1692 \div 9 =$$

9x table knowledge

$$\begin{array}{r} 0188 \\ 9 \overline{) 1692} \\ \underline{+ 16} \\ 19 \\ \underline{+ 18} \\ 12 \\ \underline{+ 9} \\ 2 \end{array}$$

188

1 mark

23

$$32.6 - 7.93 =$$

decimals line up
place holder

$$\begin{array}{r} 32.610 \\ - 7.93 \\ \hline 24.67 \end{array}$$

24.67

1 mark

24

$$\frac{1}{4} \times \frac{1}{5} =$$

just multiply top + bottom.

$$\frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$$

$$\frac{1}{20}$$

1 mark

Total for this page

25

$35 \times 36 =$

		3	5																
	x	3	6																
2	1	0																	
1	0	³ 5	0																
1	⁺ 2	6	0																

← don't forget zero.

1260

2 marks

26

$$400\ 824 - 12\ 490 =$$

	3	4	⁹ 0	7	8	2	4		
-		1	2	4	9	0			
	3	8	8	3	3	4			

388334

1 mark

Total for
this page

27

$$13 \times 2\frac{1}{2} =$$

↑
make
a fraction

turn into
improper

$$\begin{array}{r} 13 \\ \times 5 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 13 \\ \times 5 \\ \hline 65 \end{array} = \frac{65}{2}$$

need to make mixed number

$$\begin{array}{r} 32.5 \\ 2 \overline{) 65.0} \end{array}$$

$$32.5$$

don't leave remainder.

1 mark

28

$$\frac{7}{10} + \frac{2}{5} =$$

different denominators

$$\frac{7}{10} + \frac{2}{5}$$

$$\frac{2}{5} \times \frac{2}{2} = \frac{4}{10}$$

now add

$$\frac{7}{10} + \frac{4}{10} = \frac{11}{10} = 1\frac{1}{10}$$

change to
mixed
number.

$$1\frac{1}{10}$$

1 mark

Total for
this page

29

$$3424 \div 16 =$$

↖ add 10 then 6.

$$\begin{array}{r} 0214 \\ 16 \overline{) 3424} \end{array}$$

$$\begin{array}{r} 16 \\ 32 \\ 48 \\ 64 \end{array}$$

↗

count in
16s

214

2 marks

30

$$\frac{3}{4} \div \frac{3}{1} =$$

KFC.

$$\frac{3}{4} \div \frac{3}{1}$$

$$\frac{3}{4} \times \frac{1}{3} =$$

$$\frac{3}{12} \div \frac{3}{3} = \frac{1}{4}$$

simplify

$$\frac{3}{12} \text{ or } \frac{1}{4}$$

1 mark

Total for
this page

31

$19 - 3 \times 4 =$

mixed operations.

B x

I x

D x

M ✓

A x

S ✓

$19 - 3 \times 4$

$19 - 12$

7

7

1 mark

32

$1643 \times 89 =$

$$\begin{array}{r} 1643 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} 1643 \\ \times 89 \\ \hline 14787 \\ 131440 \\ \hline \end{array}$$

$$\begin{array}{r} 1643 \\ \times 89 \\ \hline 14787 \\ 131440 \\ \hline \end{array}$$

$$\begin{array}{r} 1643 \\ \times 89 \\ \hline 14787 \\ 131440 \\ \hline \end{array} \leftarrow \text{don't forget zero}$$

$$\begin{array}{r} 1643 \\ \times 89 \\ \hline 14787 \\ 131440 \\ \hline \end{array}$$

146 227

2 marks

Total for this page

35

$$\frac{5}{8} \div \frac{4}{1} = \quad K \quad F \quad C$$

$$\frac{5}{8} \div \frac{4}{1}$$

$$\frac{5}{8} \times \frac{1}{4} = \frac{5}{32}$$

$$\frac{5}{32}$$

1 mark

36

$$2\frac{1}{2} - \frac{3}{5} =$$

↑ make improper

$$\frac{5}{2} - \frac{3}{5}$$

different denominators

$$2 \quad 4 \quad 6 \quad 8 \quad (10)$$

5 (10) turn into tenths.

$$\frac{5}{2} \times \frac{5}{5} = \frac{25}{10}$$

$$\frac{3}{5} \times \frac{2}{2} = \frac{6}{10}$$

$$\frac{25}{10} - \frac{6}{10} = \frac{19}{10}$$

$$1 \frac{9}{10}$$

1 mark

Total for this page

33

$$95\% \text{ of } 480 = 480 - 5\% \quad (5\%)$$

$$\underline{\underline{0r}} \quad 480 - 24 = 456$$

$$10\% = 48$$

$$5\% = 24$$

$$90\% = 48 \times 9 = 432$$

$$95\% = 432$$

$$+ 24$$

$$456$$

$$48 \times 9$$

$$432$$

$$7$$

$$456$$

1 mark

34

$$3510 \div 78 =$$

$$\underline{80} - 2 \text{ or } 70 + 8$$

$$0045$$

$$78 \overline{) 3510}$$

$$\text{count in } 78s$$

$$78$$

$$156$$

$$234$$

$$312$$

$$390$$

$$45$$

2 marks

Guidance: Children will have 30 minutes for this test. Long division and long multiplication questions are worth **2 marks** each. Children will be awarded 2 marks for a correct answer. They may get 1 mark for showing a formal method. All other questions are worth 1 mark each.

question	answer	marks
1	21	1
2	107	1
3	753	1
4	9.2	1
5	7674	1
6	732	1
7	9	1
8	0.33	1
9	$\frac{10}{7}$ or $1\frac{3}{7}$	1
10	90	1
11	9.301	1
12	12	1
13	90	1
14	4200	1
15	$\frac{1}{11}$	1
16	4560	1
17	86.56	1
18	100 872	1
19	1050	1
20	700	1
21	6.9	1

question	answer	marks
22	188	1
23	24.67	1
24	$\frac{1}{20}$	1
25	1260	2
26	388 334	1
27	$32\frac{1}{2}$	1
28	$1\frac{1}{10}$	1
29	214	2
30	$\frac{1}{4}$	1
31	7	1
32	146 227	2
33	456	1
34	45	2
35	$\frac{5}{32}$	1
36	$1\frac{9}{10}$	1
		Total 40