1	495 + 1 =	1 mark
2	345 + 10 =	1 mark
3	82 × 1 =	1 mark
4	$\frac{1}{5}$ of 20 =	1 mark
5	36 × 0 =	1 mark
6	5813 + 1359	1 mark
7	87 ÷ 3 =	1 mark

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Year 6 Core Arithmetic Test 1 testbase

8	424 − 51 =	1 mark
9	5^2 =	1 mark
10	12 × 5 × 4 =	1 mark
11	729 × 4 =	1 mark
12	5% = $\frac{?}{100}$	1 mark
13	7624 − 931 − 87 =	1 mark
14	2.6 × 10 =	1 mark

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15	$0.3 \times 3 =$	1 mark
16	$\frac{1}{7} = \frac{?}{21}$	1 mark
17	$36.4 - 27.8 =$	1 mark
18	15% of 90 =	1 mark
19	$\begin{array}{r} 729 \\ \times\ \underline{54} \end{array}$	2 marks
20	$\frac{7}{9}$ of 45 =	1 mark
21	$221 \div 17 =$	2 marks

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22	$23.8 \div 1000 =$	1 mark
23	$63.6 \times 7 =$	1 mark
24	$\frac{5}{6} - \frac{2}{3} =$	1 mark
25	$0.6 = \frac{?}{20}$	1 mark
26	$\frac{4}{7} \div 2 =$	1 mark
27	$\frac{1}{4} \times \frac{3}{7} =$	1 mark
28	$2\frac{1}{8} - \frac{1}{4} =$	1 mark

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Mark scheme

1. 496 [1]
2. 355 [1]
3. 82 [1]
4. 4 [1]
5. 0 [1]
6. 7172 [1]
7. 29 [1]
8. 373 [1]
9. 25 [1]
10. 240 [1]
11. 2916 [1]
12. 5 [1]
13. 6606 [1]
14. 26 [1]
15. 0.9 [1]
16. 3 [1]
17. 8.6 [1]
18. 13.5 or $13\frac{1}{2}$ [1]
19. *For 2 marks*: 39 366 [2]

    For 1 mark:

$$\begin{array}{r} 729 \\ \times\ \ 54 \\ \hline 2916 \\ 36\,450 \\ \hline 39\,366 \end{array}$$

    *An error in one row, then added correctly, **or** an error in the addition*

20. 35 [1]
21. *For 2 marks*: 13 [2]

    For 1 mark: Evidence of either a long division method or short division method with only one error (carry figures must be seen in a short division method)

22. 0.0238 [1]
23. 445.2 [1]
24. $\frac{1}{6}$ [1]
25. 12 [1]
26. $\frac{2}{7}$ [1]
27. $\frac{3}{28}$ [1]
28. $1\frac{7}{8}$ [1]

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1	92 ÷ 1 =	1 mark
2	369 + 1 =	1 mark
3	456 × 0 =	1 mark
4	6 × 7 =	1 mark
5	2845 + 728 =	1 mark
6	507 − 10 =	1 mark
7	716 ÷ 4 =	1 mark

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Year 6 Core Arithmetic Test 2 testbase

8	11 × 5 × 2 =	1 mark
9	345 + 678 − 123 =	1 mark
10	$34\% = \frac{?}{100}$	1 mark
11	$\begin{array}{r} 8034 \\ -\ 4219 \end{array}$	1 mark
12	$0.4 = \frac{?}{100}$	1 mark
13	4.6 × 100 =	1 mark
14	$\begin{array}{r} 2195 \\ \times\ \ 3 \end{array}$	1 mark
15	$\frac{3}{4} = \frac{12}{?}$	1 mark

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16	$3\frac{5}{6} - 1\frac{1}{6} =$	1 mark
17	35% of 60 =	1 mark
18	6.7 ÷ 100 =	1 mark
19	$\frac{1}{5}$ of 325 =	1 mark
20	16.4 + 7.18 =	1 mark
21	$3^3 - 3^2 =$	1 mark

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Year 6 Core Arithmetic Test 2 testbase

22	$\frac{1}{2} \times \frac{1}{2} =$	1 mark
23	0.4 × 6 =	1 mark
24	$24\overline{)672} =$	2 marks
25	$\frac{1}{9} - \frac{1}{3} =$	1 mark
26	$\begin{array}{r} 2195 \\ \times \quad 38 \\ \hline \end{array}$	2 marks
27	$\frac{5}{6} \div 2 =$	1 mark
28	$1\frac{2}{3} \times 4 =$	1 mark

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Mark scheme

1.	92	**[1]**
2.	370	**[1]**
3.	0	**[1]**
4.	42	**[1]**
5.	3573	**[1]**
6.	497	**[1]**
7.	179	**[1]**
8.	110	**[1]**
9.	900	**[1]**
10.	34	**[1]**
11.	3815	**[1]**
12.	40	**[1]**
13.	460	**[1]**
14.	6585	**[1]**
15.	16	**[1]**
16.	$2\frac{4}{6}$ or $2\frac{2}{3}$	**[1]**
17.	21	**[1]**
18.	0.067	**[1]**
19.	65	
20.	23.58	**[1]**
21.	18	**[1]**
22.	$\frac{1}{4}$	**[1]**
23.	2.4	**[1]**
24.	*For 2 marks*: 28	**[2]**

For 1 mark: Evidence of either a long division method or short division method with only one error (carry figures must be seen in a short division method)

25.	$\frac{4}{9}$	**[1]**
26.	*For 2 marks*: 83 410	**[2]**

For 1 mark:

$$\begin{array}{r} 2195 \\ \times \quad 38 \\ \hline 17560 \\ 65860 \\ \hline 83410 \end{array}$$

*An error in one row, then added correctly, **or** an error in the addition*

27.	$\frac{5}{12}$	**[1]**
28.	$6\frac{2}{3}$	**[1]**

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1	894 − 1 =	1 mark
2	27 × 0 =	1 mark
3	25 × 1 =	1 mark
4	469 − 100 =	1 mark
5	56 ÷ 8 =	1 mark
6	$\frac{1}{6}$ of 24 =	1 mark
7	53 689 + 8014 =	1 mark

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Year 6 Core Arithmetic Test 3 testbase

8	6 × 5 × 4 =	1 mark
9	$2\frac{1}{5} - 3\frac{2}{5} =$	1 mark
10	2468 + 92 + 276 =	1 mark
11	$0.47 = \frac{?}{100}$	1 mark
12	$\begin{array}{r} 5494 \\ -\ \underline{2516} \end{array}$	1 mark
13	20.61 × 10 =	1 mark
14	$5\overline{)248} =$	1 mark

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15	319 × 6 =	1 mark
16	4^3 =	1 mark
17	$\frac{1}{4} = \frac{?}{24}$	1 mark
18	12% of 800 =	1 mark
19	98.4 ÷ 100 =	1 mark
20	$\frac{6}{7}$ of 42 =	1 mark
21	$\begin{array}{r} 284 \\ \times\ \underline{47} \end{array}$	2 marks

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Year 6 Core Arithmetic Test 3 testbase

22	$\begin{array}{r} 34.9 \\ \times\ \underline{5} \end{array}$	1 mark
23	34.8 − 9.76 =	1 mark
24	$21\overline{)2751}$ =	2 marks
25	$\frac{1}{3} \times \frac{1}{2} =$	1 mark
26	30% = $\frac{?}{20}$	1 mark
27	$\frac{1}{3} - \frac{3}{5} =$	1 mark
28	$\frac{1}{3} \div 4 =$	1 mark

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Mark scheme

1.	893	**[1]**
2.	0	**[1]**
3.	25	**[1]**
4.	369	**[1]**
5.	7	**[1]**
6.	4	**[1]**
7.	61 703	**[1]**
8.	120	**[1]**
9.	$5\frac{3}{5}$	**[1]**
10.	2836	**[1]**
11.	47	**[1]**
12.	2978	**[1]**
13.	206.1	**[1]**
14.	49.6 or $49\frac{3}{5}$ or 49 r3	**[1]**
15.	1914	**[1]**
16.	64	**[1]**
17.	6	**[1]**
18.	96	**[1]**
19.	0.984	**[1]**
20.	36	**[1]**

21. *For 2 marks*: 13 348 **[2]**

For 1 mark:

$$\begin{array}{r} 284 \\ \times \quad 47 \\ \hline 1988 \\ 11360 \\ \hline 13\,348 \end{array}$$

*An error in one row, then added correctly, **or** an error in the addition*

22.	174.5	**[1]**
23.	25.04	**[1]**

24. *For 2 marks*: 131 **[2]**

For 1 mark: Evidence of either a long division method or short division method with only one error (carry figures must be seen in a short division method)

25.	$\frac{1}{6}$	**[1]**
26.	6	**[1]**
27.	$\frac{14}{15}$	**[1]**
28.	$\frac{1}{12}$	**[1]**

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