

Name: Ambers Date: .....

1	Work out $42 \times 10 = 420$ (1)	L3
2	Work out $630 \div 10 = 63$ (1)	L3
3	Round 38 to the nearest 10 <u>40</u> (1) Round 246 to the nearest 100 <u>200</u> (1) Round 3562 to the nearest 1000 <u>4000</u> (1) Round 246 to the nearest 10 <u>240</u> (1) Round 3562 to the nearest 100 <u>3600</u> (1)	L3
4	Fill in the missing numbers: -6 <u>5</u> -4 -3 <u>-2</u> -1 <u>2</u>	L3
5	Molly says '1 multiplied a number by 4 and got 24' Write the number Molly started with. <u>6</u> (1)	L3
6	Fill in the blanks. $100 - 45 = \underline{55}$ (1) $100 - \underline{72} = 28$ (1) $44 + \underline{56} = 100$ (1) $100 - \underline{33} = 67$ (1)	L3

7	Calculate $139 + 122 = 261$ (1)	L3
8	Calculate $836 - 176 = 660$ (1)	L3
9	Calculate $46 \times 5 = 230$ (1)	L3
10	Calculate $88 \div 4 = 22$ (1)	L3
11	A sequence of numbers is shown. 8 14 20 26 <u>32</u> <u>38</u> (2)	L4
12	Write down the next two numbers in the sequence. A different sequence begins 9 15 21 27 33 39 Write down a rule for this sequence. <u>Adding 6</u> (1)	L4
13	From the list of numbers 1 2 5 8 9 24 30 32 a write down the multiples of 8 <u>24, 32</u> (2) b write down the factors of 45 <u>1, 5, 9</u> (3) c the square number <u>9</u> (1) d the cube number <u>1 or 8</u> (1)	L4

14	Complete the prime factor tree.	L4
15	Fill in the blanks $37 \times \underline{100} = 3700$ (1) $4300 \div \underline{100} = 43$ (1)	L4
16	Put these numbers in order of size. Start with the smallest number. 0.302   0.320   0.032   0.203   0.023   0.203 0.023, 0.032, 0.203, 0.302, 0.320 (62) → all correct or (1) → 3 correct (positions)	L4

17	Some triangles and stars are drawn below.  Write down the ratio of triangles to stars. $6:4$ or $3:2$ (1) Write down the ratio of stars to triangles. $4:6$ or $2:3$ (1)	L4
18	Work out $6000 - 3875 = 2125$ (1) <del>2125</del>	L4
19	Work out $541.8 - 20.2 = 521.6$ (1)	L4
20	Work out $684.75 + 56.4 = 741.15$ (1)	L4
21	Work out $42 \times 6 = 252$ (1)	L4
22	Work out $92 \div 4 = 23$ (1)	L4
23	Work out $5.2 \times 6 = 31.2$ (1)	L4

24	<p>Packets of biscuits cost £1.25 each. Megan buys six packets of biscuits.</p> <p>a How much does Megan pay? <math>£1.25 \times 6 = \underline{\underline{£7.50}}</math> (M1, A1)</p> <p>b She pays with a £10 note. How much change should Megan receive? <math>£10 - £7.50 = \underline{\underline{£2.50}}</math> (M1, A1)</p>	L4
25	<p>Find the <b>Lowest common multiple</b> of 4 and 14 4, 8, 12, 16, 20, 24, <u>28</u> 14, <u>28</u> M1 → multiple of 4 M1 → A1 → 28</p>	L5
26	<p>Find the <b>Highest common factor</b> of 18 and 30 18      30 ① × 18    ① × 50 ② × 9     ② × 15 ③ × 6     ③ × 10 ⑤ × 6 <u>6</u> M1 → all factors of 18 M1 → factors of 30 A1 → 6</p>	L5
27	<p>Look at the number below. <span style="border: 1px solid black; padding: 2px;">5.327</span></p> <p>What does the digit 7 represent? 7 thousandths or <math>\frac{7}{1000}</math> (1)</p>	L5
28	<p>Fill in the blanks. <math>0.3 \times 1000 = 300</math> (1) <math>\dots \dots \dots + 100 = 0.03</math> (1)</p>	L5
29	<p>Fill in the boxes. The first one is done for you.</p> <p>2.67 rounded to one decimal place is <span style="border: 1px solid black; padding: 2px;">2.7</span></p> <p>2.75 rounded to one decimal place is <span style="border: 1px solid black; padding: 2px;">2.8</span> (1)</p> <p>2.05 rounded to one decimal place is <span style="border: 1px solid black; padding: 2px;">2.1</span> (1)</p> <p>2.91 rounded to one decimal place is <span style="border: 1px solid black; padding: 2px;">2.9</span> (1)</p>	L5

30	<p>Write these temperatures in order. Start with the coldest.</p> <p><math>-4^\circ\text{C}</math>   <math>3^\circ\text{C}</math>   <math>-7^\circ\text{C}</math>   <math>0^\circ\text{C}</math>   <math>-2^\circ\text{C}</math></p> <p><math>-7^\circ\text{C}</math>, <math>-4^\circ\text{C}</math>, <math>-2^\circ\text{C}</math>, <math>0^\circ\text{C}</math>, <math>3^\circ\text{C}</math></p> <p>(B2) → all correct 1 → 3 correct</p>	L5
31	<p>Write the ratio 20:12 in its simplest form. <u>5:3</u> (1)</p>	L5
32	<p>Work out</p> <p><math>3 + (-10) = -7</math> (1)</p> <p><math>11 + (-8) = 3</math> (1)</p> <p><math>(-9) - (-9) = 0</math> (1)</p> <p><math>(-7) - 9 = -16</math> (1)</p>	L5
33	<p>Work out</p> <p><math>2 \times (-4) = -8</math> (1)</p> <p><math>20 \div (-5) = -4</math> (1)</p> <p><math>(-6) \times (-3) = 18</math> (1)</p> <p><math>(-72) \div (-8) = 9</math> (1)</p>	L5
34	<p>Look at this calculation</p> <p><math>32 \times 386 = 12352</math></p> <p>Use this information to find answer to</p> <p><math>3.2 \times 386 = \underline{\underline{1235.2}}</math> (1)</p>	L5
35	<p>Work out <math>8.2 \times 2.5 = \underline{\underline{20.5}}</math></p> <p><math>8.2</math> <math>\times 2.5</math> <u>410</u> <u>1640</u> <u>2050</u></p> <p>(M1 A1)</p>	L5
36	<p>Work out <math>2 + 5 \times 3</math></p> <p><math>2 + 15 = \underline{\underline{17}}</math></p> <p>(M1 A1)</p>	L5
37	<p>Work out <math>348 \times 27</math></p> <p><math>348</math> <math>\times 27</math> <u>2436</u> <u>7296</u> <u>9396</u></p> <p><math>300 \mid 40 \mid 8</math> <math>6000 \mid 800 \mid 160</math> <math>7 \mid 2100 \mid 230 \mid 56</math> <math>6 \mid 100 \mid 108 \mid 0 \mid 216</math></p> <p><math>8100</math> <math>1080</math> <u>216</u> <u>9396</u></p> <p><math>3 \mid 4 \mid 8</math> <math>9 \mid 6 \mid 1 \mid 6 \mid 2</math> <math>1 \mid 2 \mid 1 \mid 8 \mid 7</math> <math>9 \mid 3 \mid 9 \mid 6</math></p> <p>(M1 A1)</p>	L5
38	<p>Work out <math>657 \div 3</math></p> <p><math>3 \overline{)657}</math> <u>219</u> <u>657</u></p> <p>(M1 A1)</p>	L5

39	Work out $2934 \div 5$ (if your answer is a decimal round to 2 d.p.)	L5
40	Estimate $19 \times 43$	L5
41	A group of 28 people are going on a trip to a zoo. The ratio of males to females is 3:4. How many males are going on the trip?	L5

$$\begin{array}{r} 586.8 \\ 5 \overline{)2934.0} \end{array}$$

M2 A1

$$\begin{array}{r} 20 \times 40 = 800 \end{array}$$

M1 A1

A group of 28 people are going on a trip to a zoo. The ratio of males to females is 3:4. How many males are going on the trip?

$$\frac{28}{7} = 4$$

$$\frac{3}{4} \times 4 = 12$$

$$12 \div 4 = 12$$

12 Males

End of test

88

Level Boundaries

- 1-6: 3c
- 7-12: 3b
- 13-18: 3a
- 19-27: 4c
- 28-36: 4b
- 37-47: 4a
- 48-60: 5c
- 61-74: 5b
- 75-88: 5a