Question number	Question	Answer	Marks
1	$14 \times 0 = \square$	0	1
2	$7^2 = \square$	49	1
3	$1 - 0.7 = \square$	0.3	1
4	$210 \times \square = 210\,000$	1000	1
5	$7 = 35 \div \square$	5	1
6	$4896 \div 9 = \square$	544	1
7	$\square \times 10 = 29 + 31$	6	1
8	$\frac{4}{5} + \frac{1}{10} = \square$	$\frac{9}{10}$ (or equiv)	1
9	$\square = (14 + 8) \div 11$	2	1
10	$\frac{1}{2} \times \frac{1}{3} = \square$	$\frac{1}{6}$ (or equiv)	1
11	$864.233 \div 100 = \square$	8.64233	1
12	$\frac{5}{4} + \frac{5}{8} = \square$	$1\frac{7}{8}$ (or equiv)	1
13	$6 + 4 \times 2 = \square$	14	1
14	$\frac{5}{8}$ of $32 = \square$	20	1
15	$\square = 30\%$ of 120	36	1
16	$6 \times \square = 8958$	1493	1
17	$7 + 6 \div (3 \times 2) = \square$	8	1
18	$73648 + 976 - 2785 = \square$	71 839	1
19	$5 = 6480 \div \square$	1296	1
20	$7005 - \square = 1657$	5348	1
21	$585 \div 4 = \square$	146.25	1
22	$\square = 5\%$ of 80	4	1
23	$6 + 3 \times (3 - 1) = \square$	12	1
24	$17.3 - 9.725 + 8.6 = \square$	16.175	1
25	$7665 \div 35 = \square$	219	2*
26	$16 = \square + 2.815$	13.185	1
27	$9384 \times 27 = \square$	253 368	2*
28	$872 \div 5 = \square$	174.4	1
		Total marks	30

DAY 2

Page 20

1. 90
2. 22
3. 100
4. 180
5. 25%
6. 10%
7. 20%
8. 20%
9. 10%
10. 75%
11. 25%
12. 20%
13. £22·50
14. £18
15. 300 children, 540 women, 2160 men

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1. 195
2. 152
3. 2574
4. 75
5. 20%
6. 5%
7. 5%
8. 12·5%
9. 75%
10. 25%
11. 12·5%
12. 35%
13. £34·80
14. £304·30
15. £101
16. 6036

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1   row 1: $\frac{3}{4}, \frac{1}{5}, \frac{2}{5}, \frac{1}{8}$

row 2: 0·5, 0·25, 0·2

row 3: 50%, 75%, 25%, 40%, 12·5%

2   $60\% = 0\cdot6 = \frac{3}{5}; \frac{7}{10} = 70\% = 0\cdot7,$

$12\cdot5 = \frac{1}{8} = 0\cdot125$

3   each value on the correct place on the number line: $0\cdot25 = 25\% = \frac{1}{4}; \frac{9}{10} = 90\% = 0\cdot9;$

$0\cdot125 = 12\cdot5\% = \frac{1}{8}; \frac{1}{20} = 5\% = 0\cdot05;$

$120\% = 1\frac{1}{5} = 1\cdot2, \ 1\cdot45 = 145\% = 1\frac{9}{20}$

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1   12

2   £72

3   a) 35% b) 55% c) 201–210

4   a) 9 b) 25% c) 36

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1   Luke, £3

2   Bella, 19 cm

3   Tasmia, 12

4   a) children, 20 b) women, 6

Mastery checkpoint

Answers

Have you mastered using equivalences between fractions, decimals and percentages?

a. 30% $\frac{2}{5}$ 0·45   0·7 $\frac{3}{4}$ 80%

b. $\frac{3}{4}$ of 84 kg is 63 kg and 40% of 150kg is 60 kg, so $\frac{3}{4}$ of 84 kg is is heavier.

Champions' Challenge

Peter is not right. The cheapest shop before the sale was Games You Like. After the sale the prices are £200, £225 and £196, so Market of Games is cheapest.

Check your Method Maths and do any corrections.