

14 Euro-ferry

- (a) 0.54 (b) 0.67 (c) 0.43 (d) 0.72
- (a) 0.94 (b) 3.1 (c) 10.97 (d) 54.71
(e) 33.44 (f) 64.74
- (a) 22.11 m (b) 17.86 m (c) 16.04 m
- (a) 2.88 (b) 3.49 (c) 4.37 (d) 8.88
(e) 11.89 (f) 27.27 (g) 13.37 (h) 41.86
(i) 0.67 (j) 37.09
- (a) £9.05 (b) £6.54 (c) £10.19 (d) £29.66
- (a) £14.60 (b) £40.38 (c) £30.19
- £70.66

16 In the Castle shop

- (a) $\frac{1}{2}$ 50% (b) $\frac{1}{4}$ 25%
(c) $\frac{1}{10}$ 10%
- (a) $50\% = \frac{1}{2}$ (b) $25\% = \frac{1}{4}$ (c) $10\% = \frac{1}{10}$
- (a) 7 (b) 11 (c) 20 (d) 3
(e) 7 (f) 12 (g) 5 (h) 9
(i) 3 (j) 17 (k) 14 (l) 10
- (a) 170 castle pencils, 54 bendy pencils
(b) 85 castle pencils, 27 bendy pencils
- (a) 150 (b) 30
- (a) 40 medium quilts, 8 large quilts
(b) 40%

Name: _____

Percentages: concept
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The Castle shop

Patchwork quilts, each with 100 patches, are sold in the Castle shop.

- For each quilt, find the percentage which is grey or white.

(a)	(b)	(c)
grey <u>40%</u>	<u>48%</u>	<u>64%</u>
white <u>60%</u>	<u>52%</u>	<u>36%</u>
- Complete.
 $20\% = \frac{20}{100}$ $75\% = \frac{75}{100}$
- (a) Colour this quilt.
 - 12% blue
 - 20% red
 - 50% green.
 (b) What percentage is not coloured? 18%
- (a) What percentage of this quilt is grey 32% or black? 8%.
(b) Use red and green to colour the rest of the quilt.
(c) Complete. _____ % is coloured red
_____ % is coloured green.

Other shadings are possible.

Answers depend on children's colouring

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Name: _____

Pattern: word formulae
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Patterns

- (a) Draw the next two matchstick patterns.
- (b) Complete:

Number of hexagons	Number of matches
1	→ 6
2	→ <u>12</u>
3	→ <u>18</u>
4	→ <u>24</u>
5	→ <u>30</u>

(c) How many matches would be needed for
 • 10 hexagons 60
 • 100 hexagons? 600

(d) The number of matches is SIX times the number of hexagons.
- (a) Colour the next two cross patterns.
- (b) Complete:

Number of crosses	Number of coloured squares
1	→ 5
2	→ <u>10</u>
3	→ <u>15</u>
4	→ <u>20</u>
5	→ <u>25</u>

(c) How many coloured squares would there be in
 • 9 crosses 45
 • 20 crosses? 100

(d) The number of coloured squares is Five times the number of crosses.

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