

Maths Mastery Answers

Ratio: Solve Problems Including Percentages Challenge Cards

Card 1

Calculate 10% of 240 = 24

Calculate 5% of 240 = 12

Calculate 1% of 240 = 2.4

37% = 10% x 3 + 5% + 1% x 2

37% of 240 = $24 \times 3 + 12 + 2.4 \times 2$
= 72 + 12 + 4.8
= 88.8

Other ways are possible.

Card 2

16% -10% + 5% + 1%

23% -10% x 2 + 1% x 3

44% -10% x 4 + 1% x 4

38% -10% x 3 + 1% x 8

51% -50% + 1%

69% -10% x 7 - 1%

77% -25% x 3 + 1% x 2

92% -100% - 10% + 1% x 2

Other answers are possible.

Card 3

£1.25 sold for 80% = £1

£1.80 sold for 55% = 99p

The second bottle is cheaper.

Card 4

7% 25.2° 59% 212.4°

12% 43.2° 64% 230.4°

25% 90° 81% 291.6°

38% 136.8° 90% 324°

45% 162° 93% 334.8°

Card 5

