

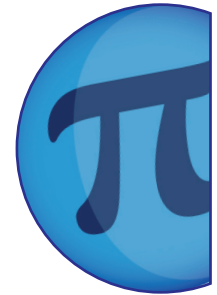


Percentages: Feeding the Nutcracker

NAME:

CLASS:

DATE:



Basic

1) What does 'per cent' (%) mean?

2) Change the following percentages into fractions in their simplest form:

a) 25%

b) 50%

c) 75%

d) 10%

e) 20%

3) Change the following fractions into percentages:

a) $\frac{13}{50}$

b) $\frac{19}{50}$

c) $\frac{4}{25}$

d) $\frac{4}{5}$

e) $\frac{2}{5}$

4) Find the following percentages:

a) 10% of £140

b) 70% of 120ml

c) 25% of £2.40

5) Of the 380 workers in a call centre, 85% are women. How many women are there?

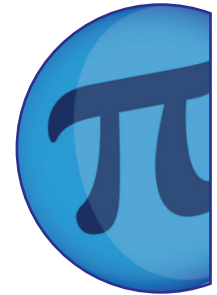


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Core

1) Write the following percentages as fractions in their simplest form:

a) 70%

b) 65%

c) 40%

d) 80%

2) Find the following percentages:

a) 50% of 328ml

b) 20% of 3250kg

c) 80% of £45

3) A painting worth £500 has increased in value by 16%. What is the new value of the painting?

4) A garage bought a car for £12,500. A year later the value of the car had decreased by 15%. What is the new value of the car?

5) Glenkirk town council plan to increase their council tax by 4.5% this year. If the council tax was £980 last year what will the new tax be?

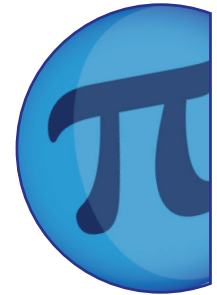


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Advanced

1) The price of theatre tickets for a family of four was £94.40. This price included a 4% booking fee. How much were the tickets without the booking fee?

2) A bag contains the following coloured balls: 12 blue, 8 green, 6 silver, 4 white, 3 black, 2 red, 1 yellow. If a ball is taken from the bag what is the probability that:

a) the ball is green?

b) the ball is red?

3) If the probability of an event happening is $\frac{5}{7}$, what is the probability of the event not happening?

4) If one card is drawn at random from a full pack of playing cards, what is the probability of:

a) drawing a king?

b) drawing a card other than a king?



Percentages: Feeding the Nutcracker

ANSWERS

Basic

1) Number of parts per 100.

2) a) $\frac{1}{4}$

b) $\frac{1}{2}$

c) $\frac{3}{4}$

d) $\frac{1}{10}$

e) $\frac{1}{5}$

3) a) 26%

b) 38%

c) 16%

d) 80%

e) 40%

4) a) £14

b) 84ml

c) £0.60

5) There are 323 women.

Core

1) a) $\frac{7}{10}$

b) $\frac{13}{20}$

c) $\frac{2}{5}$

d) $\frac{4}{5}$

2) a) 164ml

b) 650kg

c) £36

3) £580

4) £10,625

5) £1024.10

Advanced

1) £90.77

2) a) $P(\text{green}) = \frac{2}{9}$ b) $P(\text{red}) = \frac{1}{18}$

3) $\frac{2}{7}$

4) a) $\frac{1}{13}$

b) $\frac{12}{13}$