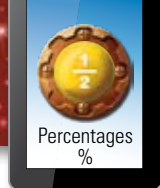


Percentages



Percentage
means 'out of 100'.
 $75\% = \frac{75}{100}$ or $\frac{3}{4}$
or 0.75.

1 Arrange these percentages in ascending order.

2 Match a percentage from above to each set of equivalent fractions.

a $\frac{20}{100}$, 0.2 or $\frac{1}{5}$ b $\frac{25}{100}$, 0.25 or $\frac{1}{4}$ c $\frac{30}{100}$, 0.3 or $\frac{3}{10}$ d $\frac{35}{100}$, 0.35
= _____ = _____ = _____ = _____

e $\frac{50}{100}$, $\frac{1}{2}$ or 0.5 f $\frac{75}{100}$, $\frac{3}{4}$ or 0.75 g $\frac{8.5}{100}$ or 0.085
= _____ = _____ = _____

3 Shade 25% and write the answers.

a _____

b _____

4 Shade 20% and write the answers.

a _____

b _____



Calculating percentages



% with money


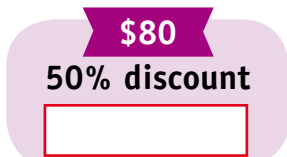

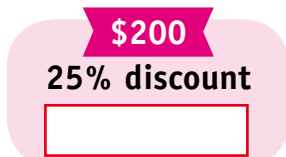
1 Use equivalent percentages and fractions to calculate the following.

- | | | | |
|---|--|---------------------------------------|--------------------------------------|
| a 25% of \$40
= $\frac{1}{4}$ of \$40
= _____ | b 20% of \$50
= _____
= _____ | c 10% of \$60
= _____
= _____ | d 50% of \$120
= _____
= _____ |
| e 25% of 1 day
= _____
= _____ | f 10% of 1 metre
= _____
= _____ | g 20% of 1 hour
= _____
= _____ | h 50% of 1 km
= _____
= _____ |

2 Use equivalent decimals and fractions to calculate the following.

- | | | | |
|-----------------------------------|------------------------------------|-----------------------------------|--------------------------------------|
| a 0.2 of 10
= _____
= _____ | b 0.25 of 24
= _____
= _____ | c 0.1 of 50
= _____
= _____ | d 0.5 of 1 day
= _____
= _____ |
|-----------------------------------|------------------------------------|-----------------------------------|--------------------------------------|

3 What is the discount in each case?

- | | | | |
|---|---|--|---|
| a  <input type="text"/> | b  <input type="text"/> | c  <input type="text"/> | d  <input type="text"/> |
|---|---|--|---|

DISCOUNT IS ALWAYS SUBTRACTED

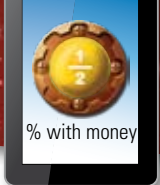
4 What is the price after the discount has been deducted?

- | | | |
|--|---|--|
| a  <input type="text"/> | b  <input type="text"/> | c  <input type="text"/> |
|--|---|--|

5 The Smiths are shopping for a new chair. They are confused by the deals offered. Help them choose the cheapest chair. Which one do you estimate? _____

- | | | |
|--|--|--|
| a  Cost _____ | b  Cost _____ | c  Cost _____ |
|--|--|--|





1 Complete these price tags.

a Price \$30
+ 10% GST _____
Sale price _____

b Price \$75
+ 10% GST _____
Sale price _____

Add GST
Cost Price \$40
10% GST +\$4
Total \$44

c Price \$1200
+ 10% GST _____
Sale price _____

d Price \$500
+ 10% GST _____
Sale price _____

e Price \$135
+ 10% GST _____
Sale price _____

2 These are the Faro family's monthly bills. They wish to reduce every one by 25%.
What will be the new amount for each?

a  **Telephone**
\$120

b  **Dining out**
\$350

c  **Food**
\$600

d  **Dog food**
\$80

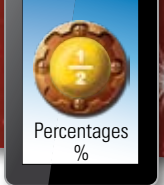
e  **Maintenance**
\$500

f  **Car expenses**
\$320

3 How much would the Faro family save each month? _____



Working with percentages



- 1 Colour an amount in each column to make a set of three, eg 50% of 300 is 150. Use a different colour for each set of three.

A	B	C
50%	75	300
25%	240	750
30%	7.5	1000
10%	4	16
75%	300	400
60%	150	10

- 2 Jeffrey made 60 runs in the cricket match and Jesse made 20 fewer than Jeffrey.
- How many runs were made altogether? _____
 - Who made 40% of the run total? _____
- 3 There are 10% more cats than dogs in the street. If there are 2 more cats than dogs, how many cats and dogs are there? _____
- 4 Alene spent 20% of her money on a T-shirt. She now has \$80 left. How much did she have to begin with? _____
- 5 Last year 1500 people attended the school fete. This year 1800 attended. By what percentage did the attendance increase? _____



Challenge! Write each set of cards in ascending order.

