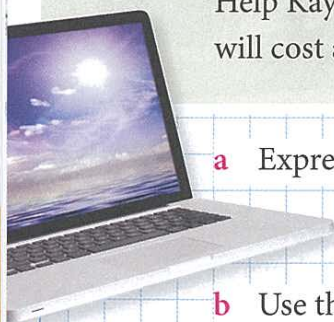


2H Money and financial mathematics

discover

In the real world, shops often give percentage discounts to try to make people buy more.

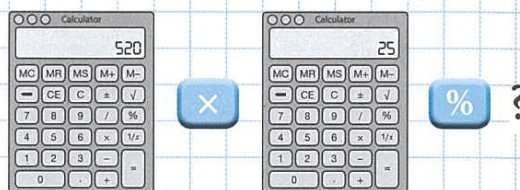
- 1 Dave's Discounts is having a stocktake sale, with all items discounted by 10%. Kaylee wants a new laptop computer. The model she likes was originally \$1500. Help Kaylee find out how much the laptop will cost after it is discounted.



- a Express 10% as a fraction.
- b Use this information to help you find 10% of \$1500. What do you notice about the original price and the amount of discount?
- c Subtract the discount from the original price. How much does the laptop cost after the discount?
- d How much would Kaylee pay for the laptop if Dave's Discounts offered 50% off? How did you work this out?

- 2 You can also use a calculator to work out percentage discounts.

Adriana owns a furniture shop. She wanted to work out how much her customers would save if she offered a 25% discount on a \$520 armchair. She entered the following into her calculator:



- a Follow the same steps to find the answer. What do you notice happens when you press the % button?
- b Record the steps Adriana would take if she wanted to calculate 10% of \$520.
- c Use a calculator to work out what a 50% discount on \$520 would be.
- d Choose another method to calculate the 50% discount and record your working. Did you get the same answer?

Now try these



- 3 A coat that usually costs \$160 has been advertised at 25% off.
- a Record the percentage as a fraction, then reduce the fraction to its simplest form.
 - b Record the percentage as a decimal.
 - c Use this information to find out how much money you would save on the coat. Which strategy did you use?
 - d What is the final cost of the coat after the discount has been applied?
 - e What discount would you receive if there was a 20% discount? How much would the coat cost?
- 4 Estimate the discount amounts for each item below, then use your calculator to check your estimate and calculate the sale prices.

Item	Original cost	Discount percentage	Estimated discount (\$)	Actual discount (\$)	Sale price (\$)
Motorbike	\$13 000	50%			
3-seater sofa	\$2250	10%			
Fridge	\$1340	25%			
Video game	\$49	25%			
Water tank	\$5261	20%			

What strategies did you use to make your estimates?