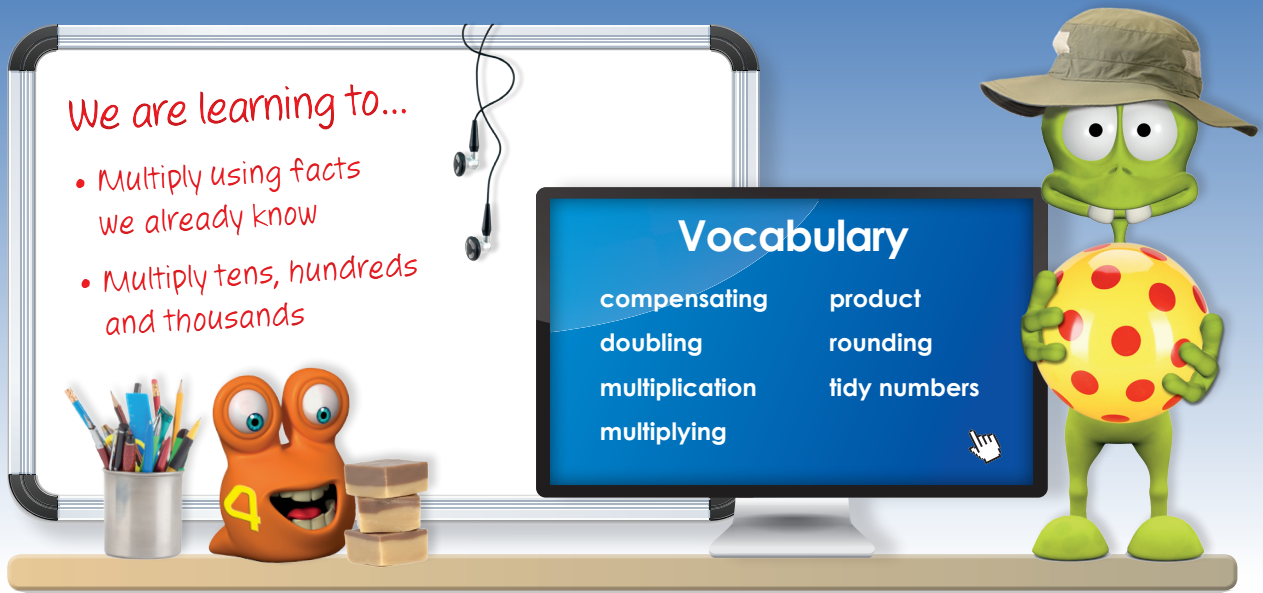


4 Multiplication strategies



Getting started



Game

Who is fastest?

- 1 Pair up.
- 2 Have a race to work out the answers to these.

a 10×5 b 2×6 c 5×6
d 5×8 e 10×4 f 10×8
g 2×9 h 5×7 i 2×9
j 5×9

Use a calculator to check the answers.

- 3 The winner is the person who was faster.
Discuss which way of working out the answers is fastest.



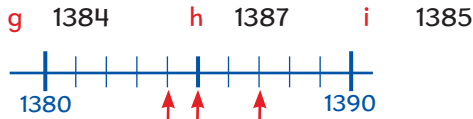
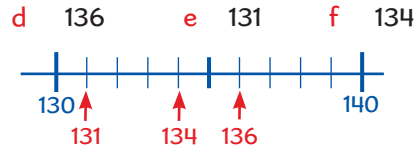
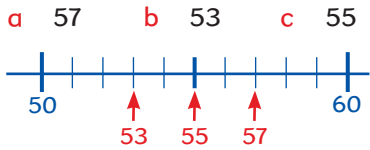
Check up on number knowledge and level 2

These page numbers tell you where to go for more practice.



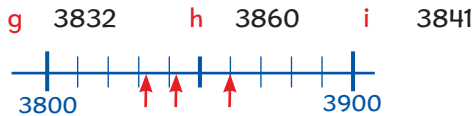
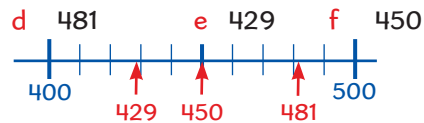
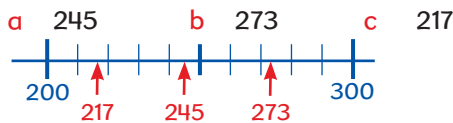
120

- 1 What are these numbers to the nearest ten?
Use the number lines to help.



- 2 What are these numbers to the nearest hundred?
Use the number lines to help.

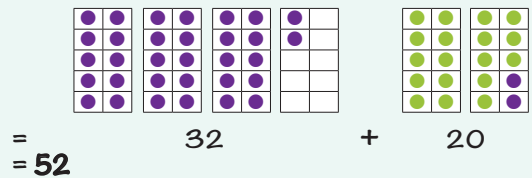
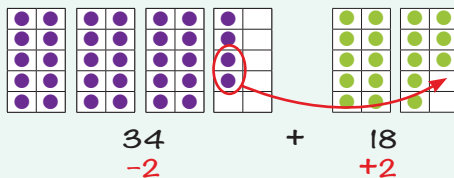
120



- 3 Cory made 34 runs in cricket and Tomu made 18.
They worked out how many runs they made together using two different ways.



Cory



Add these using tidy numbers.
Show using materials or number sentences how you did each.

a $14 + 9$

b $8 + 16$

c $26 + 9$

d $37 + 8$

e $19 + 77$

f $53 + 18$

g $19 + 44$

h $18 + 64$



Tomu

$$34 + 18 = 34 + 20 - 2$$

$$= 54 - 2$$

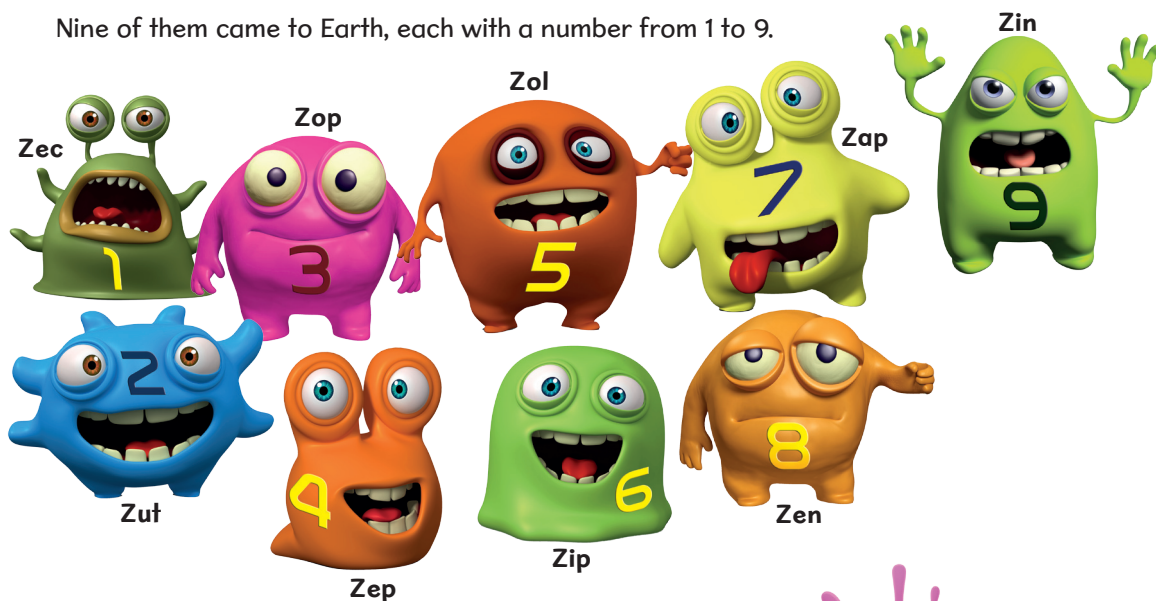
$$= 52$$



1 Alien multiplication

- The aliens from Planet Z are called Zeds.

Nine of them came to Earth, each with a number from 1 to 9.



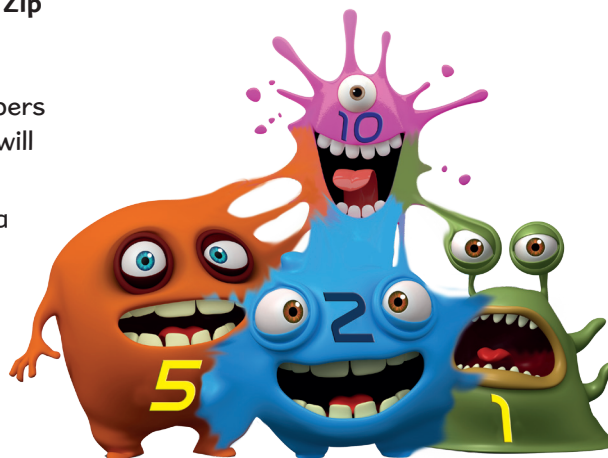
Any three of them can multiply their numbers together and create another alien which will have the number of the answer.

If an alien already has that number then a new alien cannot be created.

Example Zol, Zut and Zec multiplied their numbers together.

$$5 \times 2 \times 1 = 10$$

A new alien is created with the number 10.



- How many more aliens can the nine aliens make by three of them multiplying their numbers together?
- What numbers will each of the new aliens have?

I started working out all the possible ways like this.

$$1 \times 2 \times 3 = 6$$

$$1 \times 2 \times 4 = 8$$

$$1 \times 2 \times 5 = 10$$





- 3 Find the answers to these.

a	$\$69 + \98	b	$125 \text{ m} + 197 \text{ m}$	c	$337 \text{ cm} - 196 \text{ cm}$
d	$457 \text{ kg} - 198 \text{ kg}$	e	$654 \text{ kg} + 296 \text{ kg}$	f	$811 \text{ L} - 294 \text{ L}$
g	$1400 \text{ g} - 396 \text{ g}$	h	$4562 \text{ mm} - 895 \text{ mm}$	i	$\$5769 + \2994



- 4 How much will each item cost after the discount?

discount day

ONE DAY ONLY **\$98 DISCOUNT** on each of these items if you buy today

 \$954	 \$1573	 \$1236
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- 5 Tara's top score ever on her favourite computer game is 5672 points. Her friend's top score ever on the same game is 4398 points. How many more points is Tara's top score?



Game

Speed tidying

- Roll the three dice and make a 3-digit number. Write it down.
- Repeat **step 1** until you have six 3-digit numbers.

- three 10-sided dice numbered 0 to 9
- a timer

- Set the timer for five or ten minutes.
- Choose numbers from the basket to add to and subtract from the six numbers you have made. Use tidy numbers.
- The person who makes the most correct different answers in the time is the winner.



Use a calculator to check if you need to.

