ORIGO STEPPING STONES

CORE MATHEMATICS

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ORIGO
EDUCATION

PRACTICE BOOK

1. Complete the multiplication fact you would use to work out the division fact. Then write the answer.

a.

32 dots altogether

_____ × 4 = 32

32 ÷ 4 = _____

b.

36 dots altogether

_____ × 9 = _____

36 ÷ 9 = _____

c.

42 dots altogether

6 × _____ = _____

_____ ÷ 6 = _____

d.

56 dots altogether

_____ × 8 = _____

_____ ÷ 8 = _____

2. Draw the coins you would receive as change.

Price	Amount you pay	Change you receive
a. YOGHURT $2.15	2 DOLLARS 2 DOLLARS	
b. ice cream $3.65	FIVE DOLLARS 5	

3. Look at the abacus. Write the matching number on the expander.

a.

H	T	O	H	T	O
	Thousands			Ones	

thousands

b.

H	T	O	H	T	O
	Thousands			Ones	

thousands

c.

H	T	O	H	T	O
	Thousands			Ones	

thousands

d.

H	T	O	H	T	O
	Thousands			Ones	

thousands

MISSING BRANCHES

Why did the monkey fall out of the tree?

★ Work out each of these and write the product. Then find each product in the puzzle below and colour the matching letter green.

$6 × 4 =$ _____

$8 × 9 =$ _____

$4 × 8 =$ _____

$5 × 8 =$ _____

$4 × 4 =$ _____

$8 × 8 =$ _____

$7 × 4 =$ _____

$0 × 8 =$ _____

$4 × 2 =$ _____

$8 × 7 =$ _____

$4 × 9 =$ _____

$8 × 6 =$ _____

$3 × 4 =$ _____

$5 × 4 =$ _____

D t M h e w
32   0   16   14
26
10
m o v n k e y
8 56   18   24   64   28   48
L e r i z h r g
36   12   78   22
20
m b H H n g I o
54   44   76
62   38   40   72
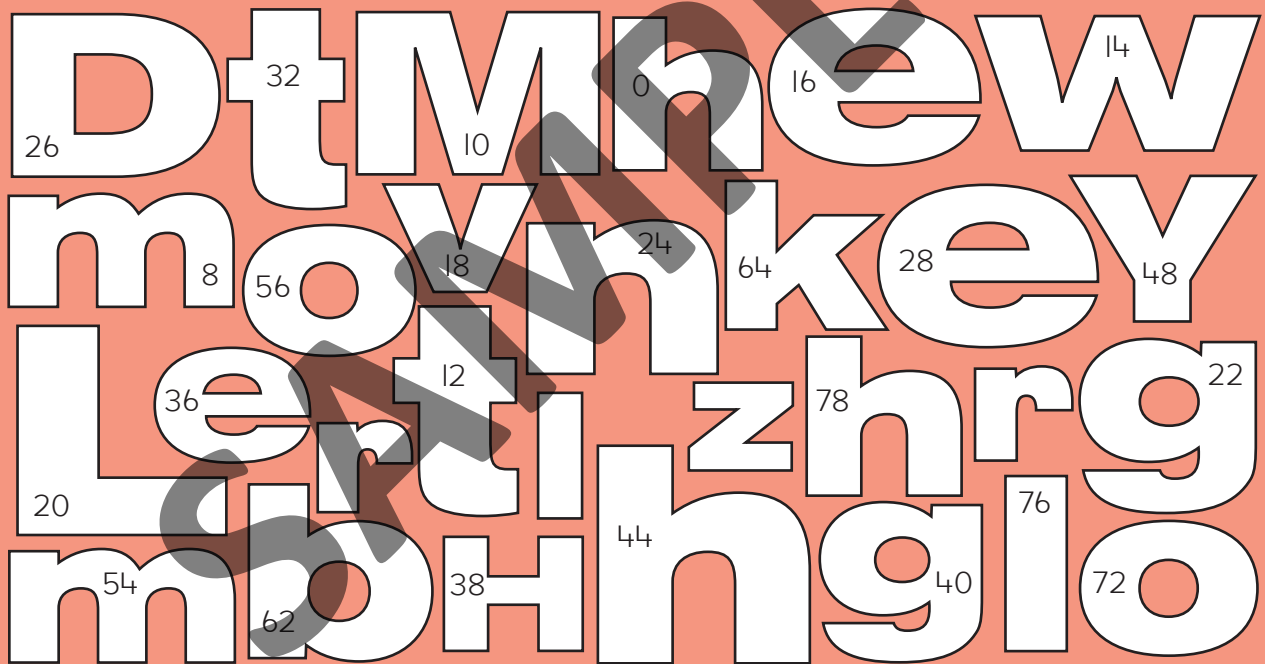
Write the products to these as fast as you can.

$4 × 6 =$ _____

$8 × 1 =$ _____

$6 × 8 =$ _____

$9 × 8 =$ _____

$3 × 8 =$ _____

$4 × 5 =$ _____

$2 × 8 =$ _____

$4 × 7 =$ _____

$8 × 8 =$ _____

1. Complete the missing parts.

a.
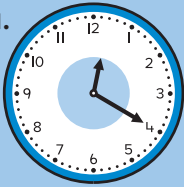
_____ minutes past _____

b.
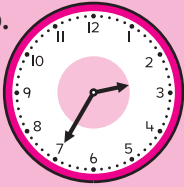
_____ minutes to _____

2. Complete each number sentence.

a. $6 +$ _____ $= 15$

b. $25 = 11 +$ _____

c. $41 -$ _____ $= 23$

d. $5 +$ _____ $= 7 + 9$

e. $14 + 31 = 42 +$ _____

3. Write the digits in the correct places on the expander. Write zeros in the remaining spaces. Then write the number name.

a.

6 hundred thousands

3 thousands

thousands

_____

_____

b.

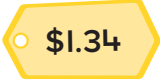4 hundred thousands

8 ten thousands

thousands

_____

_____

1. Draw jumps on the number line to show how you would calculate the total. Then use words or numbers to show what you did.

a.
287 + 55 = _____
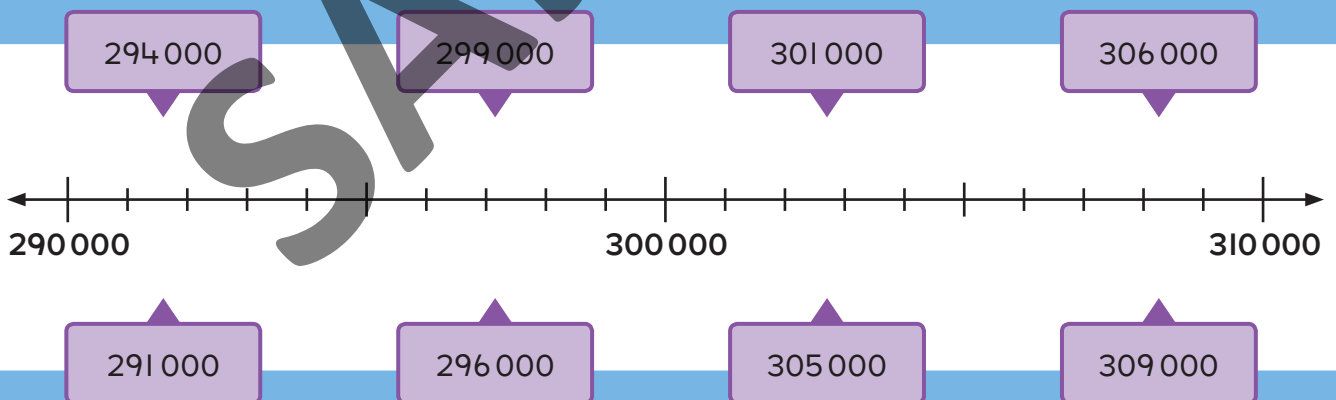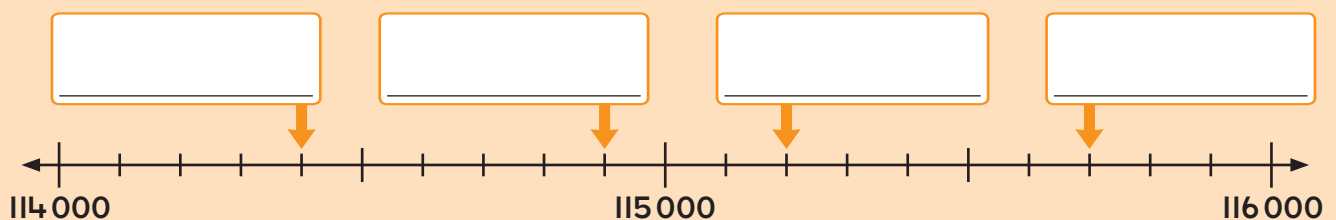
←————————————————————————→

b.
368 + 79 = _____

←————————————————————————→

2. Draw the coins you would receive as change if you paid with **cash**.

	Price	Amount you pay	Change you receive
a.	$1.34		
b.	$1.96		

3. **a.** Draw a line to connect each number to its location on the number line.

294 000   299 000   301 000   306 000

290 000 ————————————— 300 000 ————————————— 310 000

291 000   296 000   305 000   309 000

b. Write the number that is shown by each arrow.

[_____]   [_____]   [_____]   [_____]

114 000 ————————————— 115 000 ————————————— 116 000

DID YOU KNOW?

★ To discover a fun fact, work out each of these and write the answer. Then write each letter above its matching answer at the bottom of the page. Some letters appear more than once.

62 + 63 = _____ **i**

123 − 61 = _____ **w**

79 + 80 = _____ **o**

92 − 46 = _____ **l**

38 + 39 = _____ **h**

129 − 64 = _____ **z**

26 + 57 = _____ **p**

59 − 28 = _____ **r**

149 − 75 = _____ **n**

34 + 58 = _____ **m**

184 − 91 = _____ **s**

58 + 58 = _____ **t**

167 − 85 = _____ **y**

64 + 66 = _____ **b**

127 − 63 = _____ **u**

66 + 28 = _____ **e**

125	116	125	93	125	92	83	159	93	93	125	130	46	94

116	159	93	74	94	94	65	94	62	125	116	77

82	159	64	31	94	82	94	93	159	83	94	74

1. Calculate the difference between the two prices. Use a written method if you need to.

a.

○ $135   ○ $385

$ _____

b.

○ $467   ○ $145

$ _____

c.

○ $205   ○ $476

$ _____

d.

○ $530   ○ $272

$ _____

e.

○ $316   ○ $195

$ _____

f.

○ $135   ○ $401

$ _____

2. Start at the 🐰. Follow the directions and colour the path.

DIRECTIONS	
East	4
South	2
East	2
North	4
West	9
South	3
East	1

3. Calculate the new odometer numbers.

a.
1 more

4	1	5	3	9	5

_____

b.
10 more

0	5	9	3	8	1

_____

c.
100 more

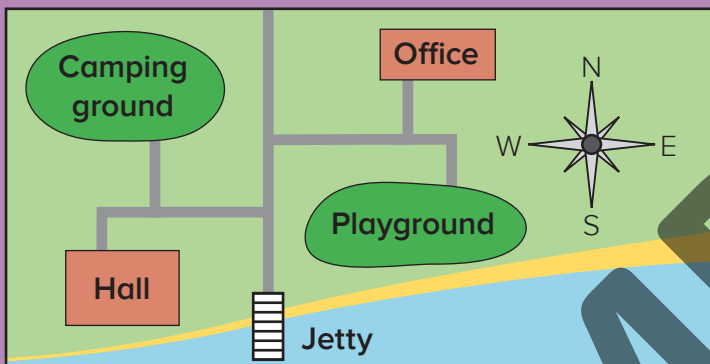| 0	4	7	8	1	2

_____

d.
1000 more

7	2	9	5	5	0

_____

1. Each large rectangle is one whole. Write how much is shaded in each rectangle.
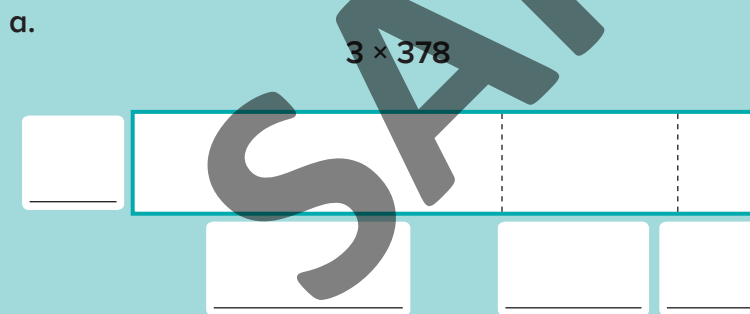Then draw extra lines to work out an equivalent fraction.

a.

$$\frac{}{4} = \frac{}{8}$$

b.

$$\frac{}{5} = \frac{}{10}$$

c.

$$\frac{}{6} = \frac{}{12}$$
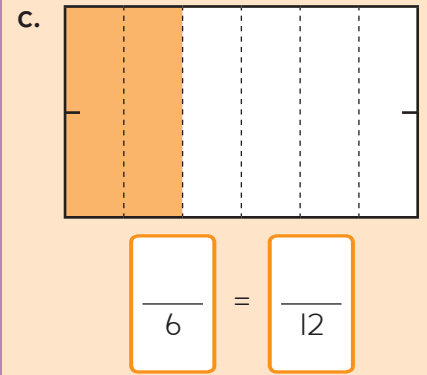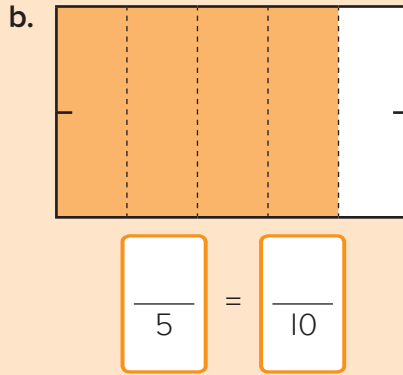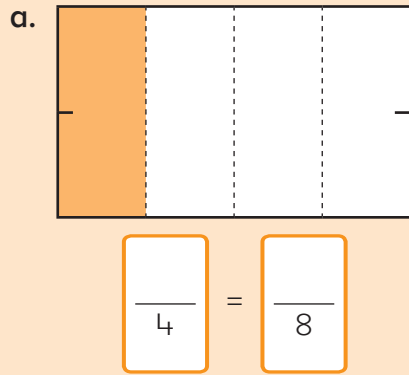
2. Follow these directions. Write where you finish.

Camping ground

Office

N
W — E
S

Playground

Hall

Jetty

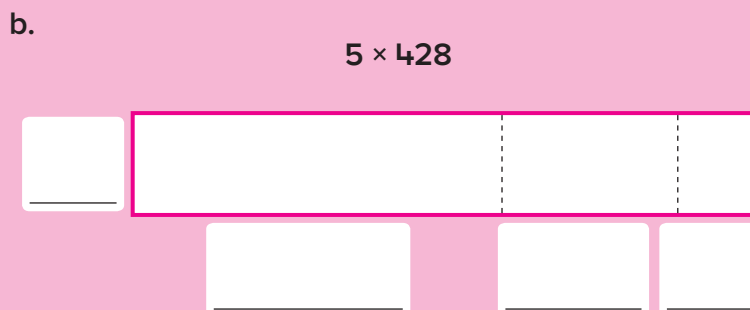**a.** Start at the hall. Move north, then east, then south.

_____

b. Start at the office. Move south, then west, then south, then west, then north.

_____

3. Write the dimensions around the rectangle. Write each partial product.
Then add the partial products to work out the total.

a.

3 × 378

_____ × _____ = _____

_____ × _____ = _____

_____ × _____ = _____

Total _____

b.

5 × 428

_____ × _____ = _____

_____ × _____ = _____
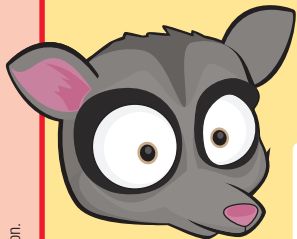
_____ × _____ = _____

Total _____

VERY COLD

What do you call a kangaroo at the South Pole?

⭐ For each of these, write the product and the turnaround fact. Then find each product in the puzzle below and colour the matching letter. Some answers appear more than once.

5 × 9 = _____ = _____ × _____

9 × 3 = _____ = _____ × _____

7 × 9 = _____ = _____ × _____

9 × 10 = _____ = _____ × _____

2 × 9 = _____ = _____ × _____

9 × 8 = _____ = _____ × _____

6 × 9 = _____ = _____ × _____

9 × 0 = _____ = _____ × _____

4 × 9 = _____ = _____ × _____

A 45 O 84 G 85 L O 27 S t 0 90
D 57 A 18 U r 55 81 36 A 73 I O 45 K 71 61
k 90 N 27 G 63 H 79 r 18 w O 95 72

Write these products as fast as you can.

9 × 2 = _____   9 × 7 = _____   9 × 5 = _____

8 × 9 = _____   3 × 9 = _____   0 × 9 = _____

9 × 6 = _____   9 × 4 = _____   9 × 9 = _____

1. Complete each of these.

a.
2 metres

is the same length as

_____ centimetres

b.
5 metres

is the same length as

_____ centimetres

c.
4 metres

is the same length as

_____ centimetres

d.
6 metres

is the same length as

_____ centimetres

e.
15 metres

is the same length as

_____ centimetres

f.
$3\frac{1}{2}$ metres

is the same length as

_____ centimetres

2. Imagine one marble is taken out of the bag without looking.

a. Which colour is **most** likely to be taken out?

_____

b. Which colour is **least** likely to be taken out?

_____

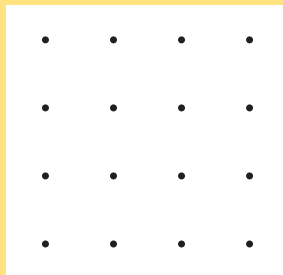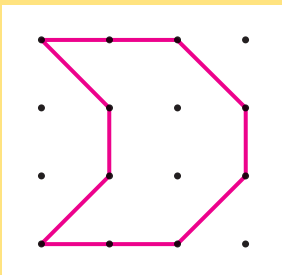**c.** Which colour is **impossible** to be taken out?

_____

d. Is any colour **certain** to be taken out?

_____

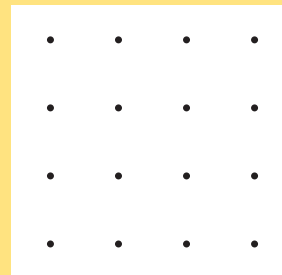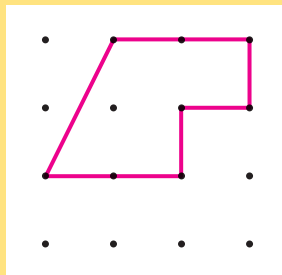**3.** Complete each number sentence. Then write the total of the three products.

a.
3 × 254

3 × 200 = 600

3 × 50 = _____

3 × 4 = _____

Total _____

b.
6 × 183

6 × 100 = _____

6 × 80 = _____

6 × 3 = _____

Total _____

c.
7 × 438

7 × 400 = _____

7 × 30 = _____

7 × 8 = _____

Total _____

1. Read how the shape changes. Then draw the shape to show the change.

a. reflect sideways

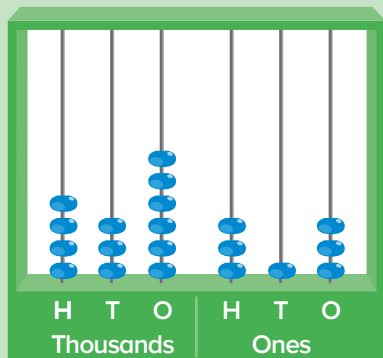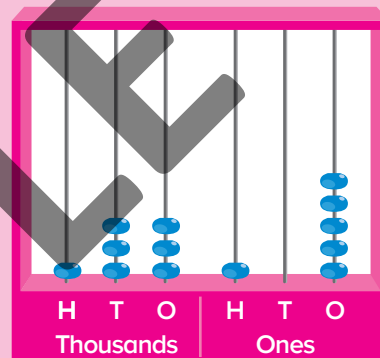**b.** rotate one-quarter turn left

2. Draw extra beads on the abacus to match the number on the expander.

a.

H	T	O	H	T	O
Thousands			Ones		

| 4 | 5 | 6 | *thousands* | 5 | 4 | 9 |

b.

H	T	O	H	T	O
Thousands			Ones		

| 2 | 3 | 5 | *thousands* | 1 | 8 | 7 |

3. Calculate these totals. Show your thinking.

a.
327 + 58 = _____

b.
186 + 2462 = _____

c.
4245 + 727 = _____