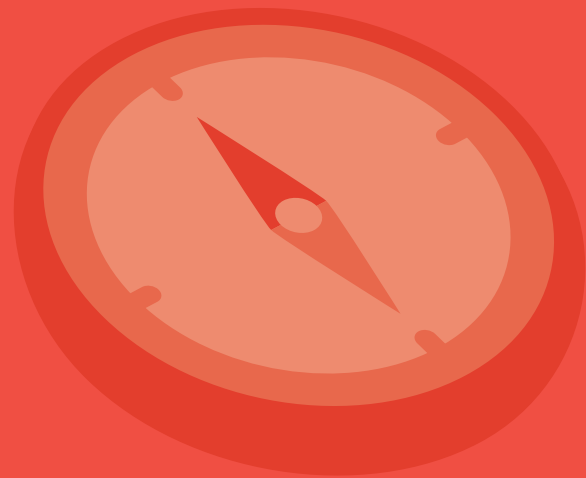


ORIGO

# STEPPING STONES

SAMPLE PAGES

CORE MATHEMATICS



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ORIGO  
EDUCATION

**PRACTICE BOOK**

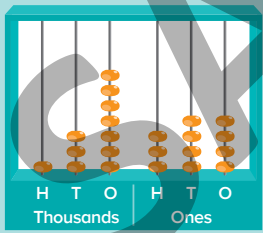
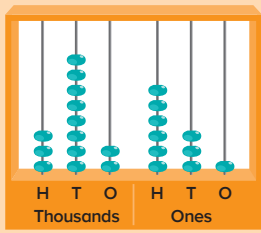
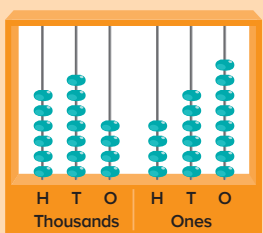
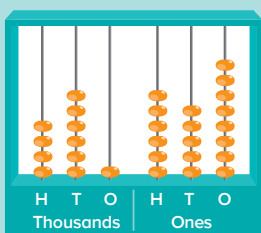
1. Complete the multiplication fact you would use to work out the division fact. Then write the answer.

<p>a. </p> <p><math>\underline{\quad} \times 4 = 32</math></p> <p><math>32 \div 4 = \underline{\quad}</math></p>	<p>b. </p> <p><math>\underline{\quad} \times 9 = \underline{\quad}</math></p> <p><math>36 \div 9 = \underline{\quad}</math></p>	<p>c. </p> <p><math>6 \times \underline{\quad} = \underline{\quad}</math></p> <p><math>\underline{\quad} \div 6 = \underline{\quad}</math></p>	<p>d. </p> <p><math>\underline{\quad} \times 8 = \underline{\quad}</math></p> <p><math>\underline{\quad} \div 8 = \underline{\quad}</math></p>
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2. Draw the coins you would receive as change.

Price	Amount you pay	Change you receive
<p>a. </p>		
<p>b. </p>		

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

<p>a. </p> <p><math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math></p> <p>thousands</p>	<p>b. </p> <p><math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math></p> <p>thousands</p>
<p>c. </p> <p><math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math></p> <p>thousands</p>	<p>d. </p> <p><math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math> <math>\underline{\quad}</math></p> <p>thousands</p>

# 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.

$6 \times 4 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$0 \times 8 = \underline{\quad}$

$4 \times 2 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$4 \times 9 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

Word search puzzle with products written inside the letters:

Row 1: D (26), t (32), M (10), h (0), e (16), w (14)

Row 2: m (8), o (56), v (18), n (24), k (64), e (28), y (48)

Row 3: L (20), e (36), r (12), t (78), i (22), z (76), h (44), r (76), g (22)

Row 4: m (54), b (62), o (38), H (44), n (40), g (76), i (72), o (72)



Write the products to these as fast as you can.

$4 \times 6 = \underline{\quad}$

$8 \times 1 = \underline{\quad}$

$6 \times 8 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$3 \times 8 = \underline{\quad}$

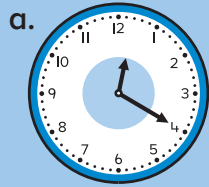
$4 \times 5 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

$4 \times 7 = \underline{\quad}$

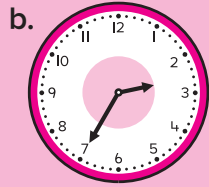
$8 \times 8 = \underline{\quad}$

1. Complete the missing parts.



\_\_\_\_\_ minutes past \_\_\_\_\_

:



\_\_\_\_\_ minutes to \_\_\_\_\_

:

2. Complete each number sentence.

a.  $6 + \underline{\quad} = 15$

b.  $25 = 11 + \underline{\quad}$

c.  $41 - \underline{\quad} = 23$

d.  $5 + \underline{\quad} = 7 + 9$

e.  $14 + 31 = 42 + \underline{\quad}$

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

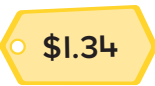

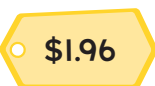

			thousands			

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.

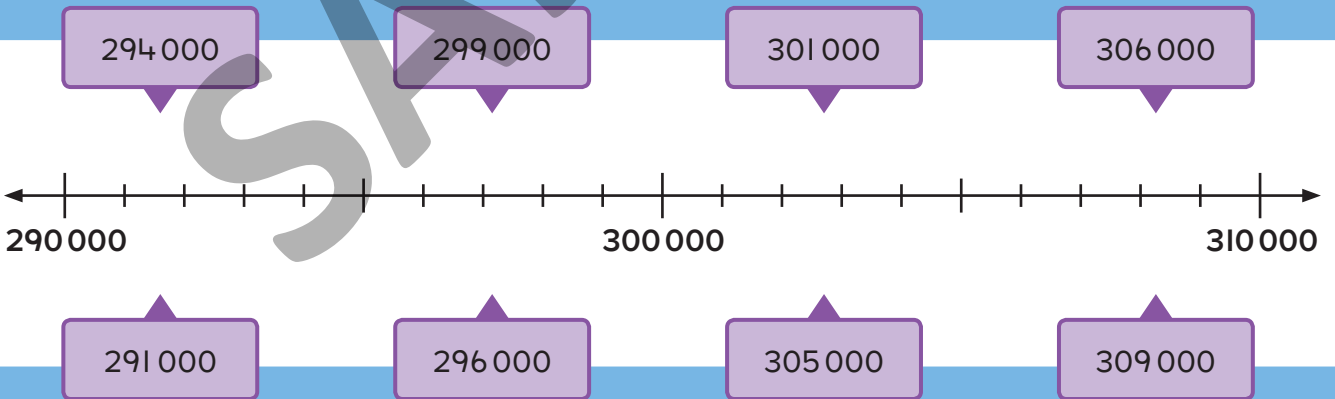
a.  $287 + 55 =$   

b.  $368 + 79 =$   

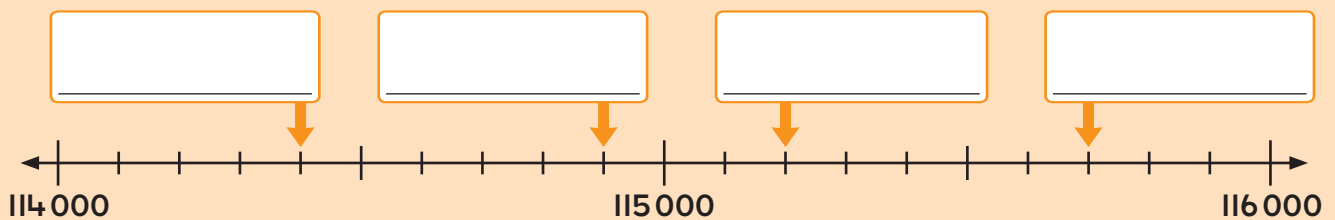
2. Draw the coins you would receive as change if you paid with **cash**.

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.



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



# DID YOU KNOW?

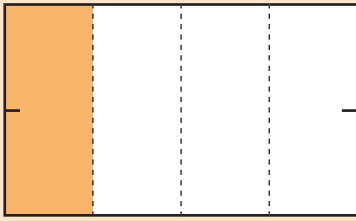
★ To discover a fun fact, work out each of these and write the answer. Then write each letter above its matching answer at the bottom of the page. Some letters appear more than once.

$62 + 63 =$ <input type="text"/>	<i>i</i>	$149 - 75 =$ <input type="text"/>	<i>n</i>
$123 - 61 =$ <input type="text"/>	<i>w</i>	$34 + 58 =$ <input type="text"/>	<i>m</i>
$79 + 80 =$ <input type="text"/>	<i>o</i>	$184 - 91 =$ <input type="text"/>	<i>s</i>
$92 - 46 =$ <input type="text"/>	<i>l</i>	$58 + 58 =$ <input type="text"/>	<i>t</i>
$38 + 39 =$ <input type="text"/>	<i>h</i>	$167 - 85 =$ <input type="text"/>	<i>y</i>
$129 - 64 =$ <input type="text"/>	<i>z</i>	$64 + 66 =$ <input type="text"/>	<i>b</i>
$26 + 57 =$ <input type="text"/>	<i>p</i>	$127 - 63 =$ <input type="text"/>	<i>u</i>
$59 - 28 =$ <input type="text"/>	<i>r</i>	$66 + 28 =$ <input type="text"/>	<i>e</i>

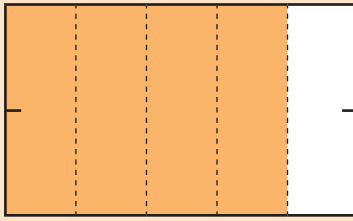
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
125	116	125	93	125	92	83	159	93	93	125	130	46	94
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
116	159	93	74	94	94	65	94	62	125	116	77		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
82	159	64	31	94	82	94	93	159	83	94	74		



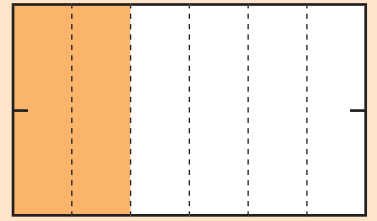
1. Each large rectangle is one whole. Write how much is shaded in each rectangle. Then draw extra lines to work out an equivalent fraction.

a. 

$\frac{1}{4} = \frac{\quad}{8}$

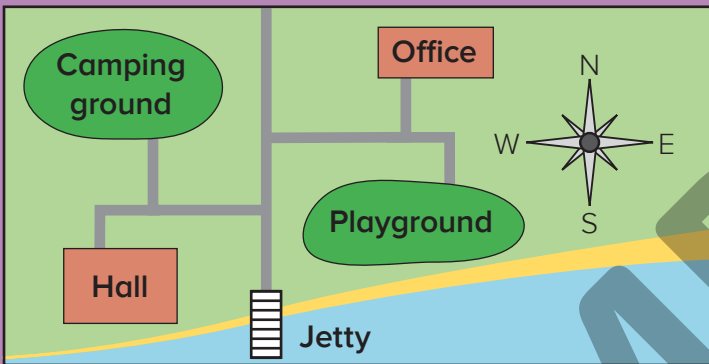
b. 

$\frac{4}{5} = \frac{\quad}{10}$

c. 

$\frac{2}{6} = \frac{\quad}{12}$

2. Follow these directions. Write where you finish.



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.  $3 \times 378$



$\times \quad =$

\_\_\_\_\_

$\times \quad =$


\_\_\_\_\_

$\times \quad =$

\_\_\_\_\_

Total \_\_\_\_\_

b.  $5 \times 428$



$\times \quad =$

\_\_\_\_\_

$\times \quad =$

\_\_\_\_\_

$\times \quad =$

\_\_\_\_\_

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.

$$5 \times 9 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$9 \times 8 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$9 \times 3 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$6 \times 9 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$7 \times 9 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$9 \times 0 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

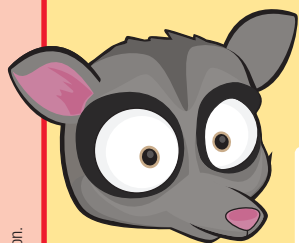
$$9 \times 10 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$4 \times 9 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

$$2 \times 9 = \underline{\quad} = \underline{\quad} \times \underline{\quad}$$

A 3x5 grid of letters with numbers in the gaps:

A	O	G	L	O	S	t
45	84	85	54	27	90	0
D	A	U	r	A	I	O
57	18	55	81	36	73	61
K	N	g	H	r	w	o
90	27	63	79	18	95	72



Write these products as fast as you can.

$9 \times 2 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$9 \times 5 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$0 \times 9 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$9 \times 4 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

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.  $3 \times 254$

$3 \times 200 = \underline{600}$

$3 \times 50 = \underline{\hspace{2cm}}$

$3 \times 4 = \underline{\hspace{2cm}}$

Total

b.  $6 \times 183$

$6 \times 100 = \underline{\hspace{2cm}}$

$6 \times 80 = \underline{\hspace{2cm}}$

$6 \times 3 = \underline{\hspace{2cm}}$

Total

c.  $7 \times 438$

$7 \times 400 = \underline{\hspace{2cm}}$

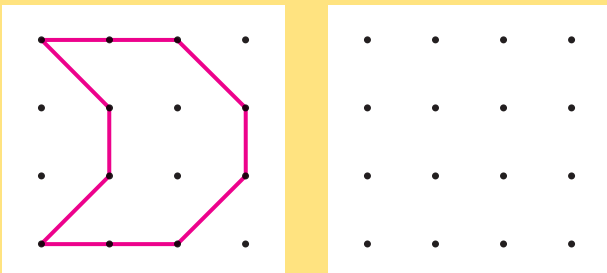
$7 \times 30 = \underline{\hspace{2cm}}$

$7 \times 8 = \underline{\hspace{2cm}}$

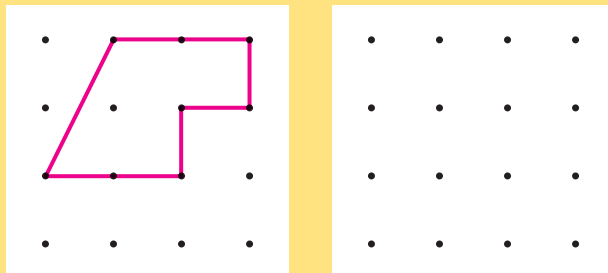
Total

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

a. reflect sideways

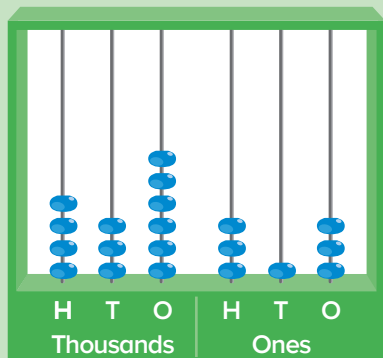


b. rotate one-quarter turn left

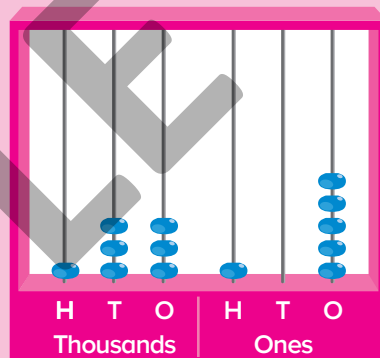


2. Draw extra beads on the abacus to match the number on the expander.

a.



b.



3. Calculate these totals. Show your thinking.

a.

$$327 + 58 = \underline{\hspace{2cm}}$$

b.

$$186 + 2462 = \underline{\hspace{2cm}}$$

c.

$$4245 + 727 = \underline{\hspace{2cm}}$$