

Plattsburg Public School


Learning from Home

Year 4

Group 1

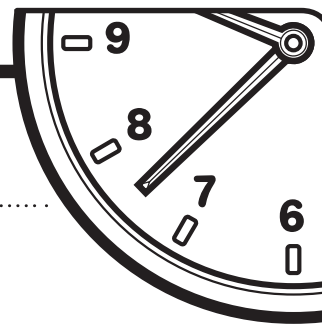
NUMERACY





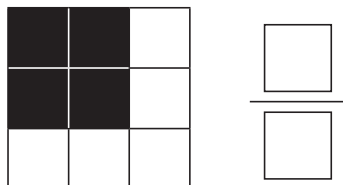
Monday

Minute 30



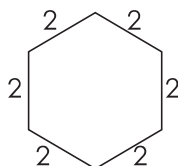
Name: Date:

1. $32 \div 4 = \dots\dots\dots$
2. $45 + 10 = \dots\dots\dots$
3. Write the fraction of the shaded area.



4. $5 \times 6 = \dots\dots\dots$
5. The perimeter of the shape is 12.

Circle: True or False



6.
$$\begin{array}{r} 66 \\ + 37 \\ \hline \end{array}$$

.....
.....

7. The expanded form of 831 is + +

8.
$$\begin{array}{r} 86 \\ - 85 \\ \hline \end{array}$$

.....
.....

9. What is the abbreviation for **millimetre**?

10. $12 - \square = 10$

My score:

10

My time:

..... minutes seconds

Place value of whole numbers – working with place value

Zero plays an important role in numbers. It tells us that the value of the column is nothing and holds the place of other numbers.

I have \$6 055.
Without the zero,
I have only \$655!



1 Write these numbers:

- a Four thousands, six hundreds, zero tens and 1 unit.
- b Two thousands, zero hundreds, zero tens and zero units.
- c Six thousands, three hundreds, 1 ten and zero units.
- d Two thousands, zero hundreds, 6 tens and zero units.
- e Ten thousands, nine hundreds, zero tens and zero units.

2 A zero has been added to each number in different places. Match them to a number in the box and write this number in figure. The first one has been done for you.

a	82	Eight thousand and ninety two	8 092
b	570	Two hundred and seventy	
c	892	Eight hundred and two	
d	27	Six thousand, seven hundred and seven	
e	677	Five thousand and seventy	

3 Record the steps you followed to use a calculator to change:

- a 567 to 507 by taking away one number.
- b 2 093 to 2 100 by adding one number.
- c 760 to 60 by taking away one number.
- d 997 into a 4 digit number.

Written methods – 3 digit addition with regrouping

Continued from page 28.

2 Add these 3 digit numbers using the written method:

e:				
	H	T	U	
d	2	6	3	
+	1	3	9	

e:				
	H	T	U	
e	3	4	4	
+	4	5	9	

e:				
	Th	H	T	U
f		2	5	2
+		2	4	9

e:				
	Th	H	T	U
g		2	6	2
+		5	4	9

e:				
	Th	H	T	U
h		6	2	9
+		2	8	9

e:				
	Th	H	T	U
i		3	4	9
+		3	8	7

3 Solve these word problems using the written method:

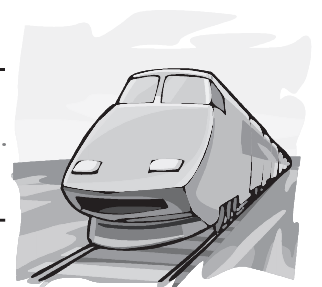
a At a muffin shop, 456 banana choc chip muffins were sold on Saturday and 458 caramel chunk muffins were sold on Sunday. How many muffins were sold that weekend?

	H	T	U
+			



b A train left the station with 389 people on board and then another 678 people got on over the next three stops. How many passengers were on the train altogether?

	Th	H	T	U
+				

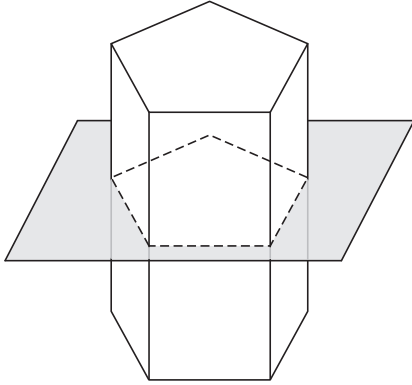


Name : _____

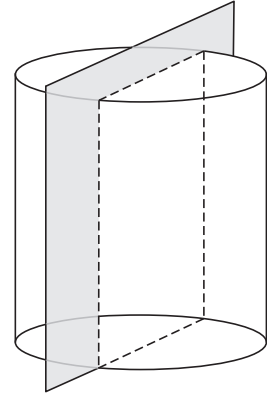
Cross Section of 3D Shapes

Identify and name the 2D shape that is formed on slicing the following 3D figures.

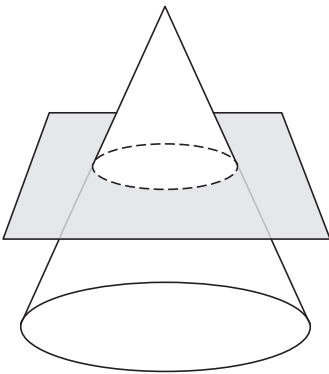
1)



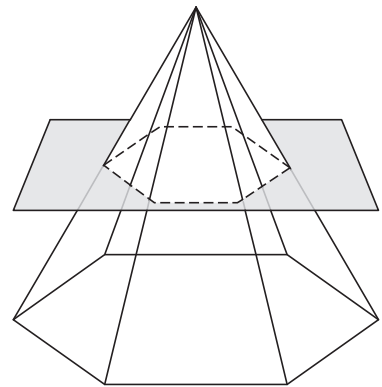
2)



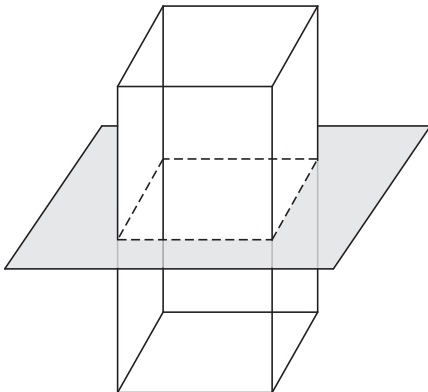
3)



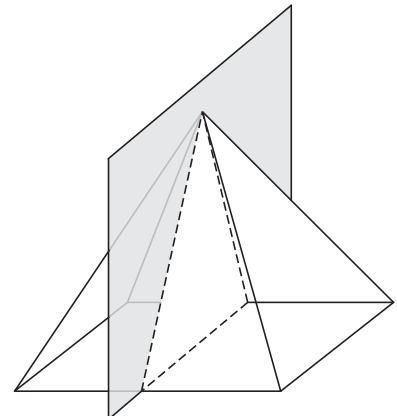
4)



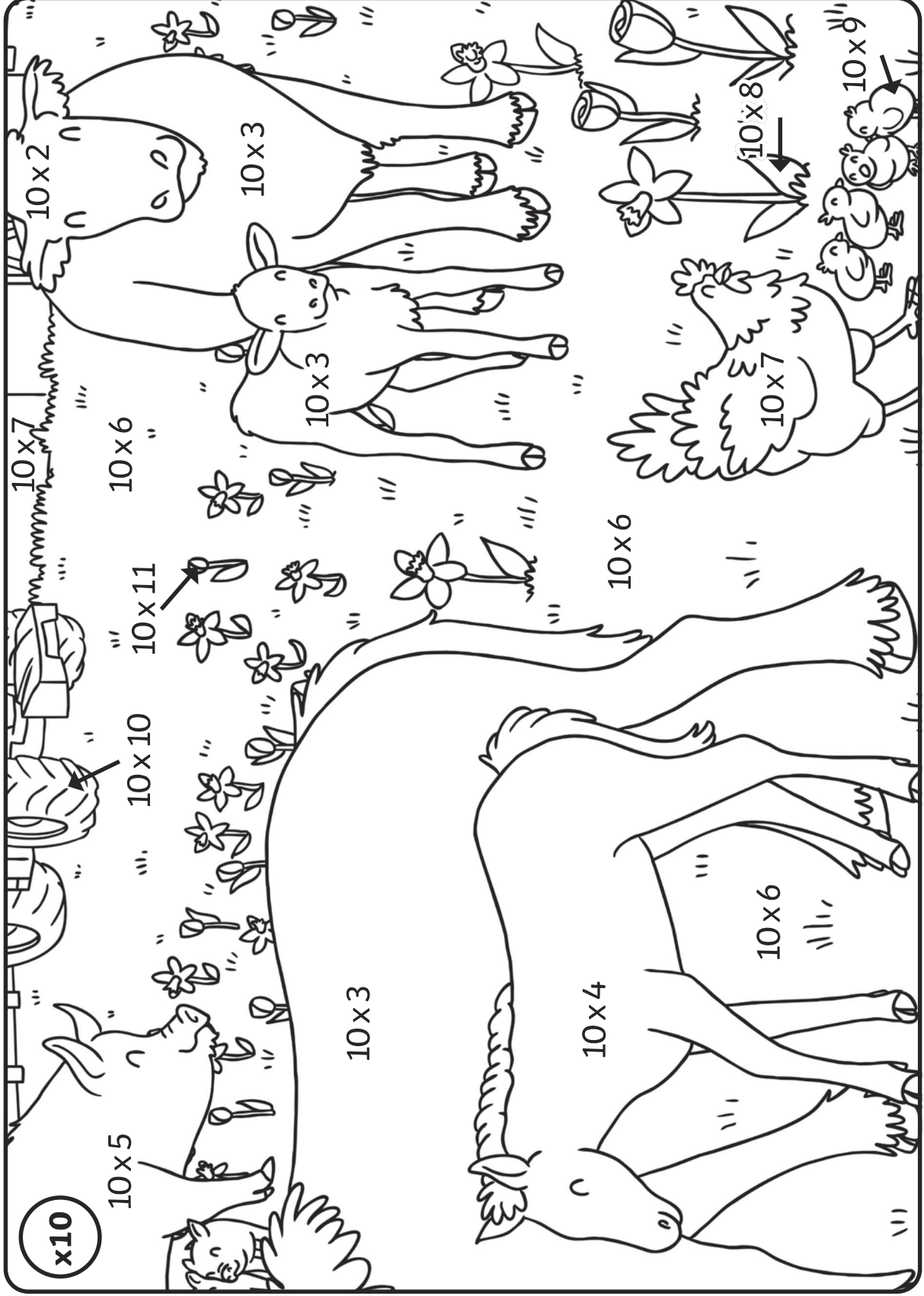
5)




6)



Colour by Multiplication

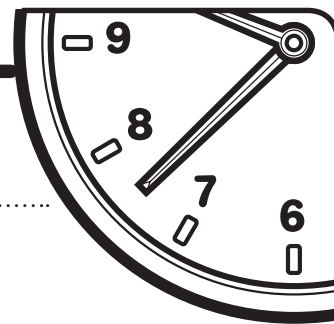


20	white
30	brown
40	light brown
50	pink
60	light green
70	red
80	dark green
90	yellow
100	black
110	orange



Tuesday

Minute 31



Name: Date:

1. $8 \times 2 = \dots\dots\dots$

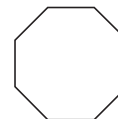
2. Ben's party starts at 2.00 pm. His party lasts 2 hours.

What time does it end?

3.
$$\begin{array}{r} 73 \\ - 38 \\ \hline \end{array}$$

.....

4. There are angles and sides on the shape.



5. $28 \div 4 = \dots\dots\dots$

6.
$$\begin{array}{r} 58 \\ + 26 \\ \hline \end{array}$$

.....

7. What is the abbreviation for **hour**?

8.
$$\begin{array}{r} \square \\ 3 \overline{)12} \end{array}$$

For Questions 9 and 10, circle the figure that is congruent (same shape and size) to the shaded figure.

9.

10.

My score:

10

My time:

.....
minutes

.....
seconds

Place value of whole numbers – working with place value

4 Use these digits to make the following 4 digit numbers:

8

7

1

0

a A number with 7 in the hundreds place.

b Two numbers with 0 in the units place.

c One number that has 71 tens.

d A number that has 87 tens.

e A number that has zero as a place holder.

5 Help these kids remember their special numbers:

a Charlie needs a password to access his computer. The password includes the digits 5 6 7 1. It is the smallest odd number.

What is the password?

b Bec needs to withdraw money from the bank but she can't remember her PIN. The password includes the digits 3 3 9 8. It is the largest even number.

What is her PIN?

c The alarm is ringing in Frankie's house and she needs to remember the code to switch it off. She knows the numbers include 5 9 2 7 and that it begins with 9. It is the second largest number.

What is the alarm code?

d Max recently changed the combination to the lock on his games cupboard. The combination includes the digits 6 1 1 9. It is the second smallest number.

What is the combination to the lock?

Written methods – 4 digit addition

1 Add these 4 digit numbers:

	Th	H	T	U
a	3	3	5	3
+	1	0	2	1
<hr/>				
<hr/>				

	Th	H	T	U
b	2	5	4	6
+	5	4	3	1
<hr/>				
<hr/>				

	Th	H	T	U
c	4	5	2	4
+	2	1	6	4
<hr/>				
<hr/>				

	Th	H	T	U
d	3	6	3	1
+	1	3	5	7
<hr/>				
<hr/>				

	Th	H	T	U
e	1	2	5	2
+	5	3	3	3
<hr/>				
<hr/>				

	Th	H	T	U
f	2	4	3	2
+	5	3	4	6
<hr/>				
<hr/>				

2 Add these 4 digit numbers by regrouping:

	Th	H	T	U
a	6	6	3	8
+	1	2	3	6
<hr/>				
<hr/>				

	Th	H	T	U
b	4	2	4	5
+	2	5	1	7
<hr/>				
<hr/>				

	Th	H	T	U
c	3	4	2	9
+	1	1	3	9
<hr/>				
<hr/>				

3 Add these 4 digit numbers by regrouping:

	Th	H	T	U
a	2	4	6	6
+	2	1	8	7
<hr/>				
<hr/>				

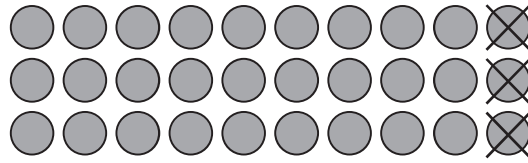
	Th	H	T	U
b	3	1	8	7
+	3	0	5	9
<hr/>				
<hr/>				

	Th	H	T	U
c	3	2	9	6
+	2	1	5	8
<hr/>				
<hr/>				

Using known facts – 9 times table

If you get stuck on a 9 times table fact, you can use the 10 times table facts and then build down.

$$3 \times 9 = \boxed{?}$$



$$3 \times 10 = 30 - 3 \longrightarrow \text{So, } 3 \times 9 = 27$$

1 Think of the $\times 10$ facts and build down to get the $\times 9$ facts. The first one is done for you.

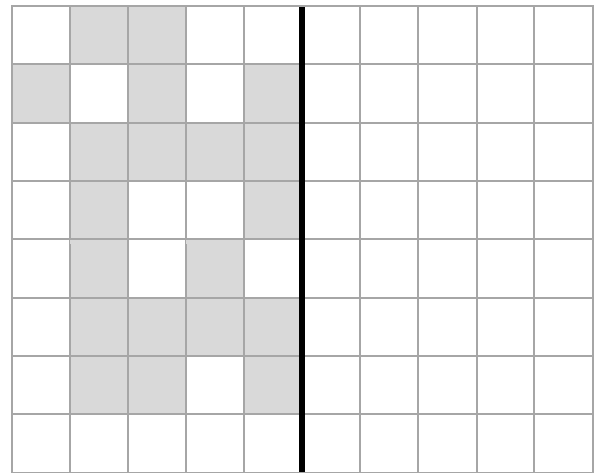
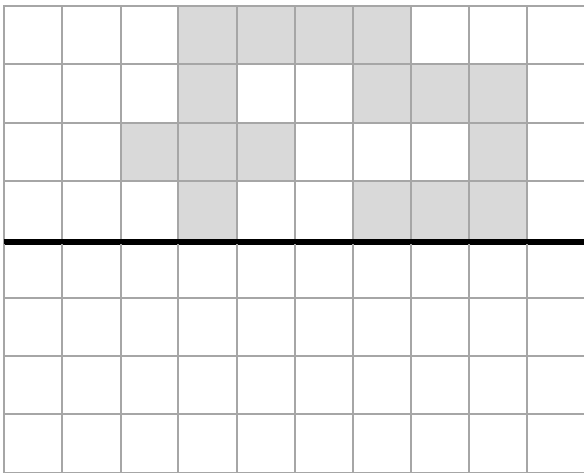
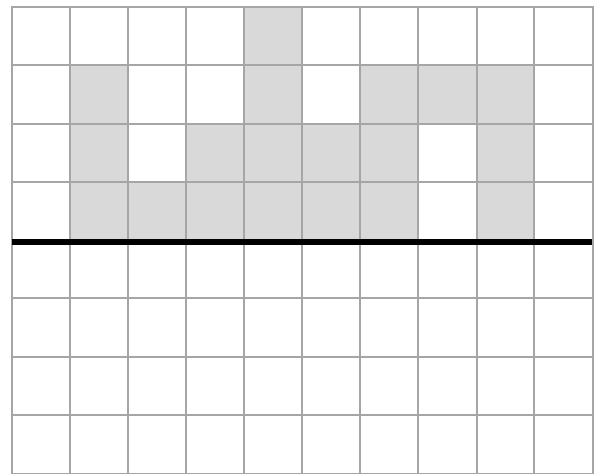
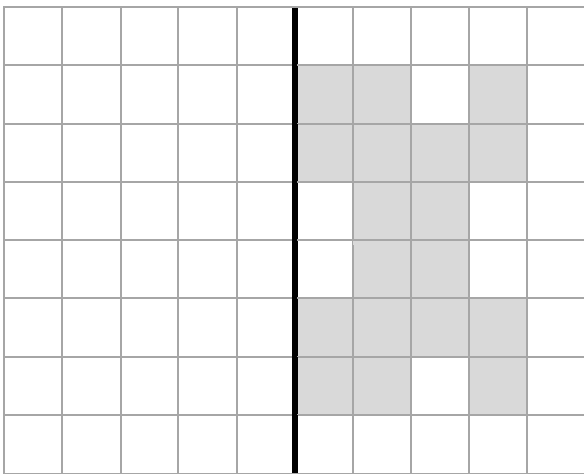
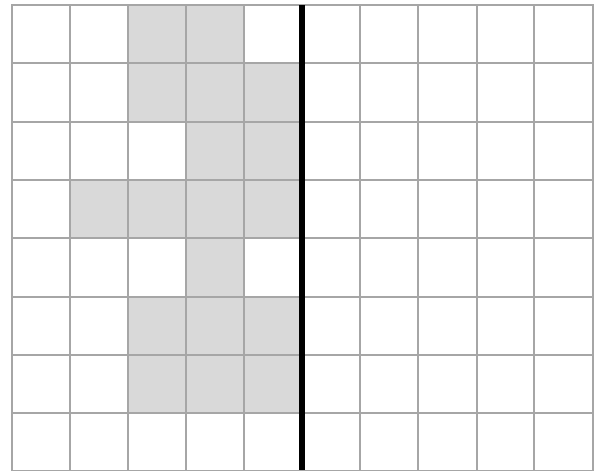
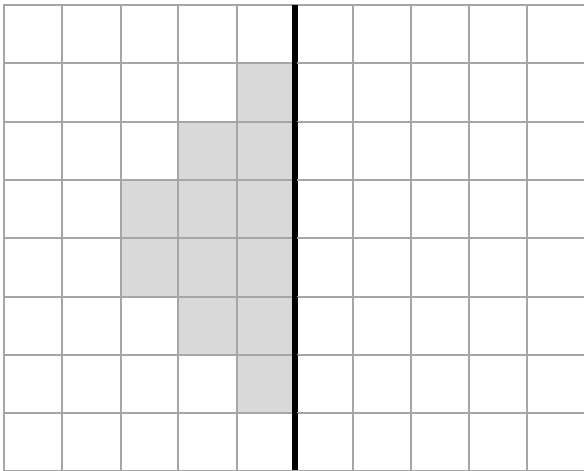
$\times 10$ table	Build down by	$\times 9$ table
$1 \times 10 = 10$	1	$1 \times 9 = 9$
$2 \times 10 = 20$		
$3 \times 10 = 30$		
$4 \times 10 = 40$		
$5 \times 10 = 50$		
$6 \times 10 = 60$		
$7 \times 10 = 70$		
$8 \times 10 = 80$		
$9 \times 10 = 90$		
$10 \times 10 = 100$		

2 Complete the $\times 9$:

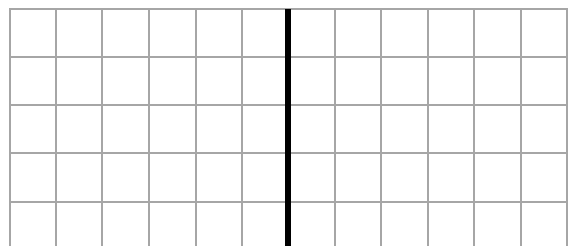
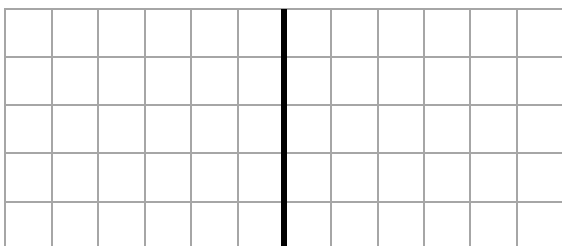
\times	2	6	4	8	3	9	10	5	7
9									

Symmetry

1. Use the symmetry line to help you complete the missing part of each shape.

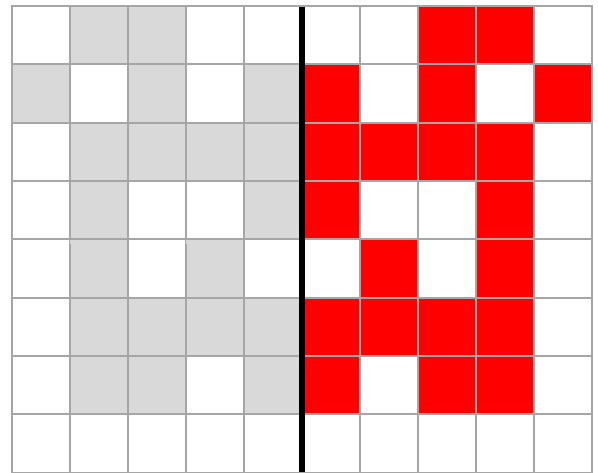
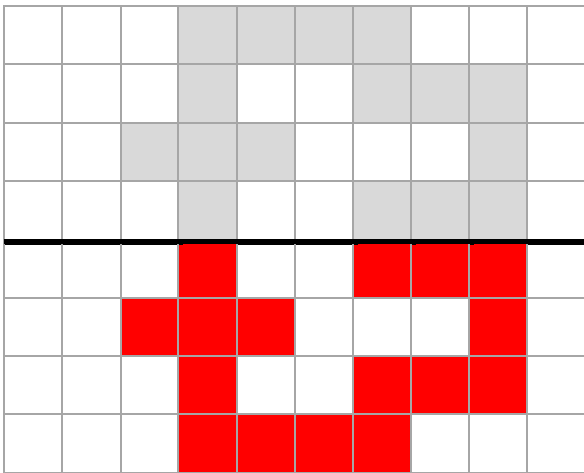
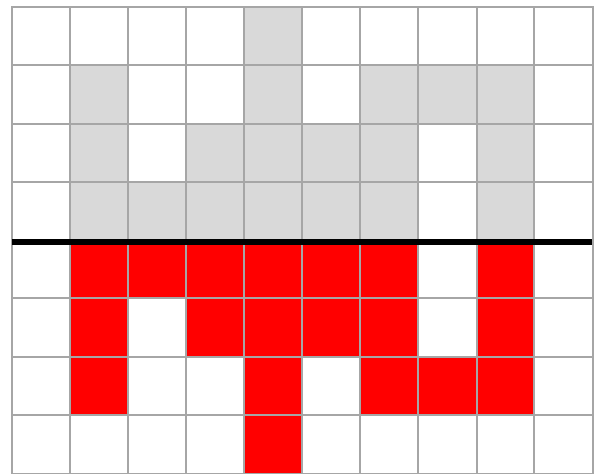
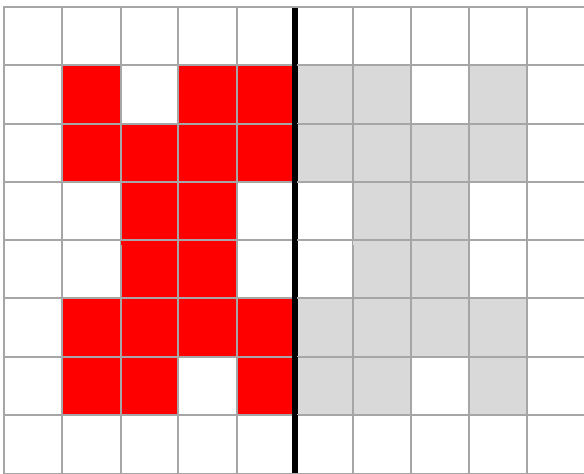
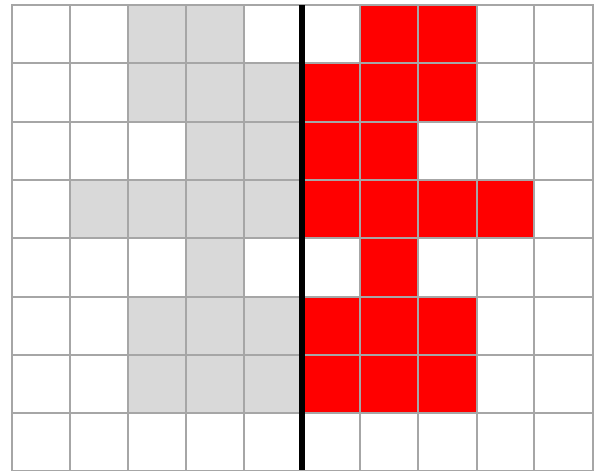
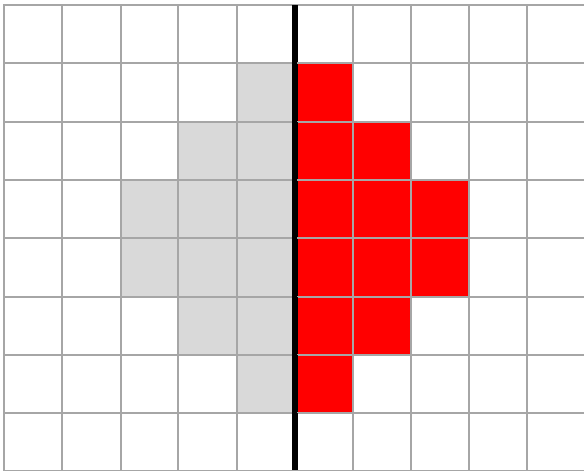


2. Create your own shape on one side of the symmetry line and challenge a friend to finish the missing half!

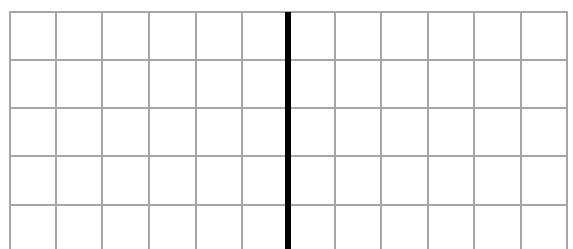
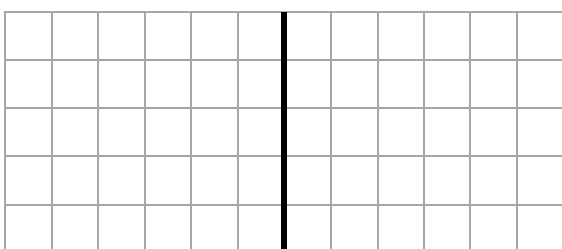


Symmetry Answers

1. Use the symmetry line to help you complete the missing part of each shape.



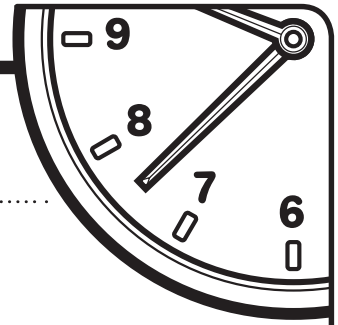
2. Create your own shape on one side of the symmetry line and challenge a friend to finish the missing half!





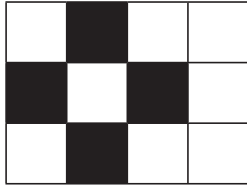
Wednesday

Minute 32



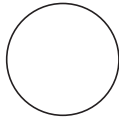
Name: Date:

1. Write the fraction of the shaded area.



2. This is an angle.

Circle: True or False

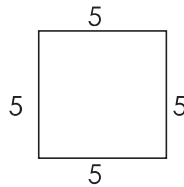


3. $36 \div 4 = \dots\dots\dots$

4. $6 \times 6 = \dots\dots\dots$

5. The perimeter of the shape is 20.

Circle: True or False



6.
$$\begin{array}{r} \square \\ 3 \overline{)12} \end{array}$$

7. The expanded form of 432 is + +

8.
$$\begin{array}{r} 24 \\ + 38 \\ \hline \\ \hline \end{array}$$

9.
$$\begin{array}{r} 63 \\ - 28 \\ \hline \\ \hline \end{array}$$

10. Mark bought 18 jelly frogs. He gave 9 of them to his brother. How many jelly frogs did Mark keep for himself?

..... jelly frogs

My score:

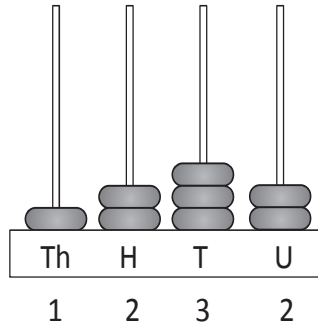
10

My time:

..... minutes seconds

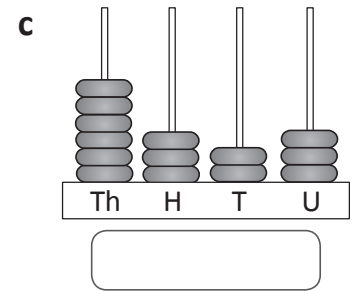
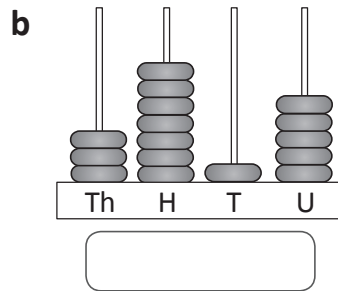
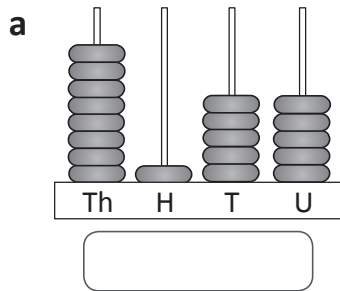
Place value of whole numbers – place value to 4 digits

We can show the value of a 4 digit number on an abacus and also with base ten blocks.

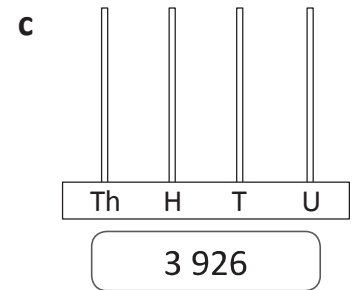
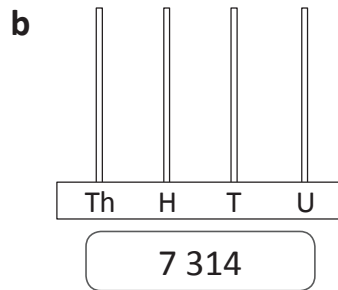
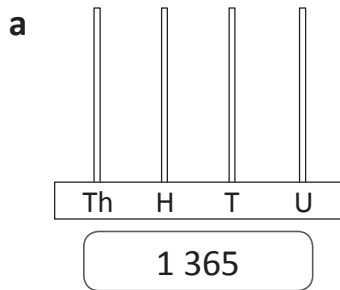


1 is worth 1 000 or one thousand.
 2 is worth 200 or two hundreds.
 3 is worth 30 or three tens.
 2 is worth 2 or two units.

1 Write the number shown on each abacus:



2 Draw the beads to show the numbers:



3 Circle the digit that matches the place value:

a tens: 2 330

b units: 4 322

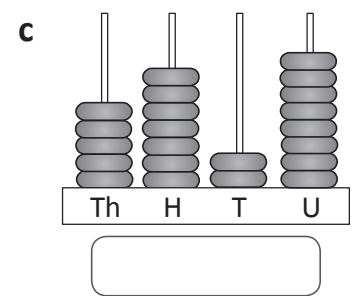
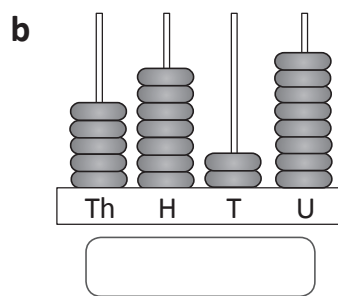
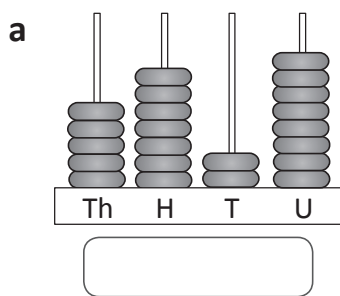
c hundreds: 9 218

d units: 5 661

e tens: 8 754

f thousands: 6 845

4 Add a bead to each abacus anywhere you like and write the new number:



Written methods – 3 digit subtraction with regrouping

- 1 Subtract these 3 digit numbers using the written method. Start by writing your estimate. Estimate to the nearest 10.

e:

	H	T	U
a	6	5	2
-	3	2	7

e:

	H	T	U
b	7	6	1
-	2	2	9

e:

	H	T	U
c	5	9	2
-	4	4	8

You can use a piece of scrap paper to estimate your answer to the nearest 10.



CHECK

e:

	H	T	U
d	5	8	2
-	3	4	6

e:

	H	T	U
e	6	5	1
-	4	3	8

e:

	H	T	U
f	9	6	2
-	6	4	9

e:

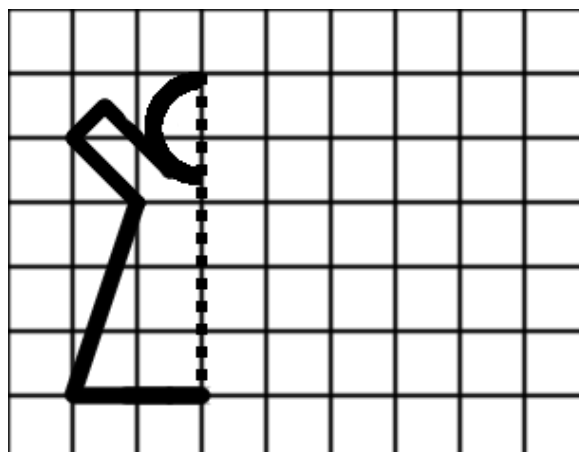
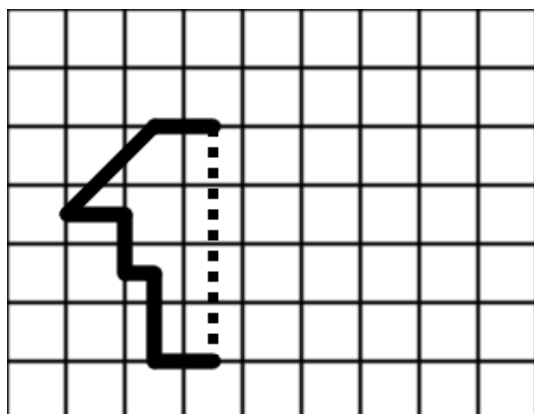
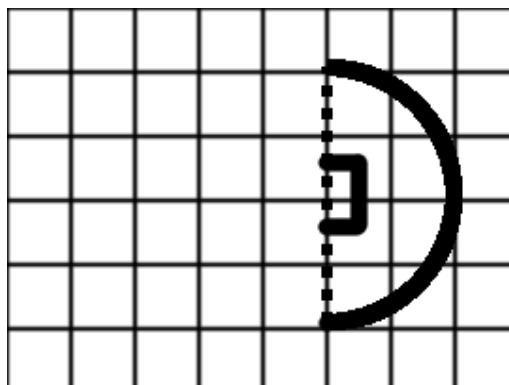
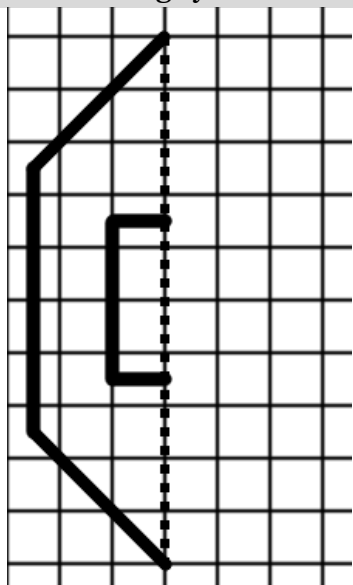
	H	T	U
g	8	8	2
-	6	6	6

e:

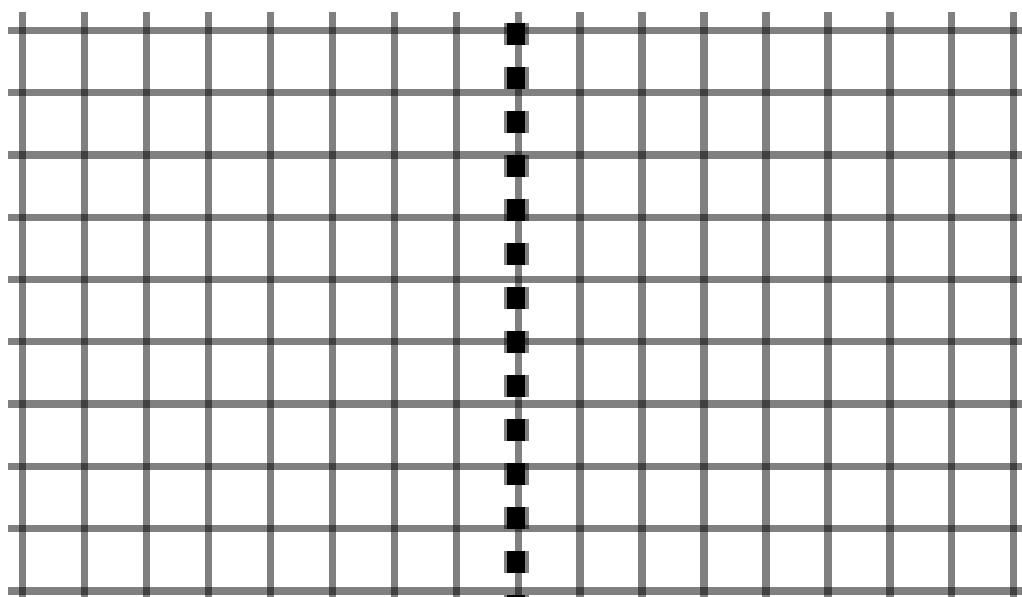
	H	T	U
h	7	4	3
-	3	3	9

Symmetry

Complete the following symmetrical shapes.

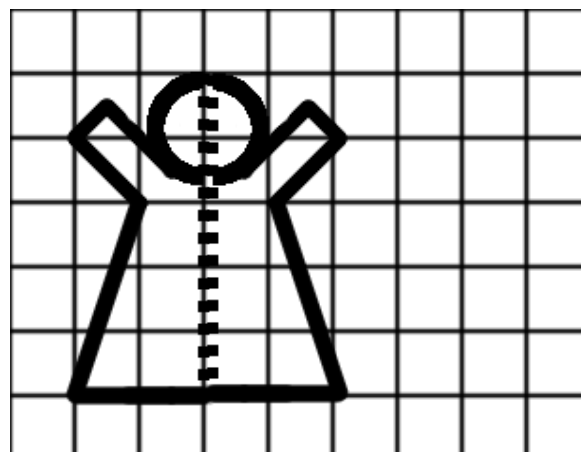
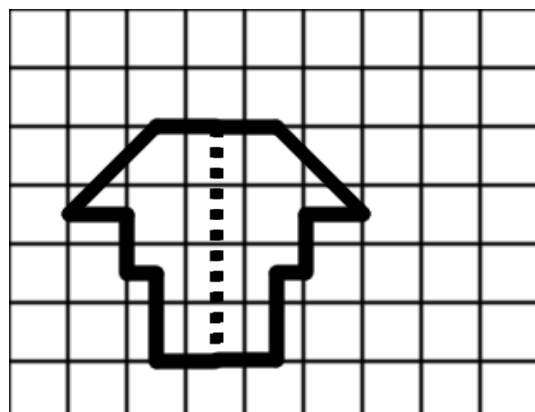
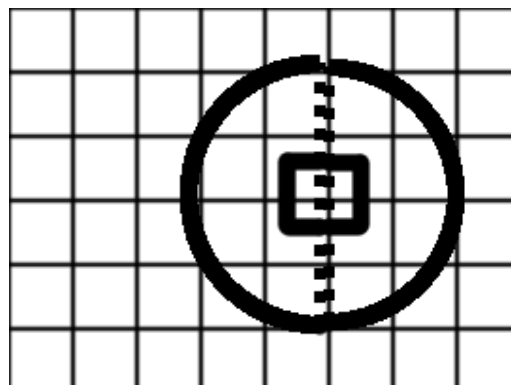
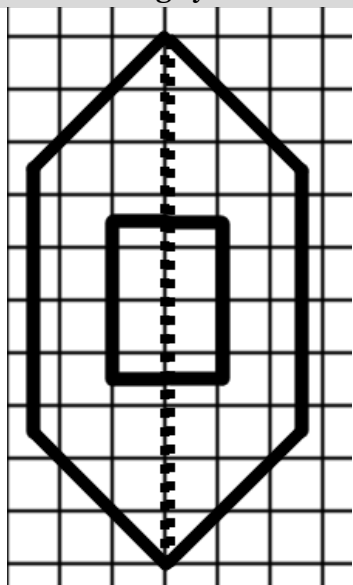


Draw a shape against the line of symmetry below. Then challenge a partner to finish your shape!
(Or do it yourself!)

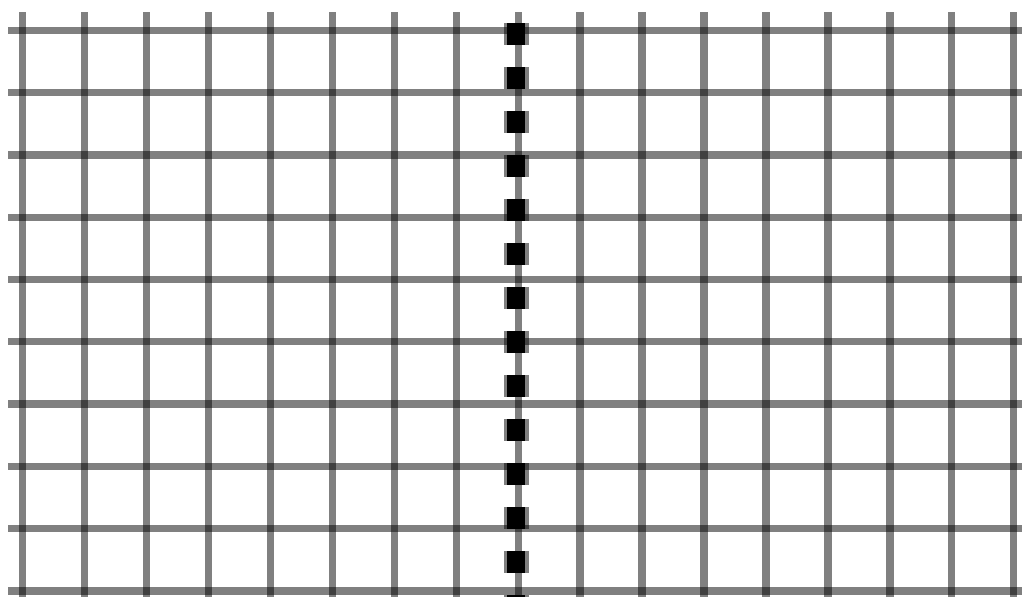


Symmetry Answers

Complete the following symmetrical shapes.



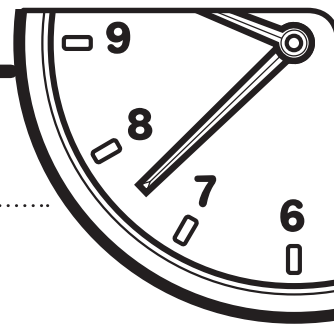
Draw a shape against the line of symmetry below. Then challenge a partner to finish your shape!
(Or do it yourself!)





Thursday

Minute 33



Name: Date:

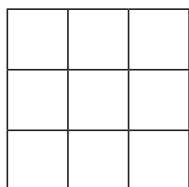
1.
$$\begin{array}{r} 78 \\ + 15 \\ \hline \end{array}$$

.....
.....

2. Write the next two numbers in the pattern.

8, 16, 24, 32, 40,,

3. The area of the shape is 6 square units.

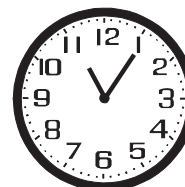


Circle: True or False

4. $30 \div 5 = \dots\dots\dots$

5. $9 \times 2 = \dots\dots\dots$

6. What time does the clock show? 11.



7. Circle how many centimetres equal 1 metre.

10 100 1000

8.
$$\begin{array}{r} \square \\ 4 \overline{)16} \end{array}$$

9. What is the abbreviation for **second**?

10.
$$\begin{array}{r} 75 \\ - 37 \\ \hline \end{array}$$

.....
.....

My score:

10

My time:

.....
minutes

.....
seconds

Written methods – addition and subtraction challenges

1 Write the numbers which are above each problem in the correct place:

a

4	3	9
---	---	---

	3	6	2
+			7
	7	9	

b

8	3	3	2
---	---	---	---

		6	5
-	4		
	4		3

c

6	5	1
---	---	---

		3	
+	2		3
	8	4	8

d

3	6	7
---	---	---

	5		
-		2	4
	2	4	3

2 Solve these. The same symbol means the same number.

a

	◆	3	◆
+	◆	◆	4
1	0	8	9

◆ =

b

	6	2	9
+	♥	1	♥
1	1	4	4

♥ =

c

	★	8	★
-	3	★	2
1	★	2	

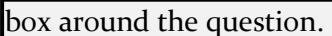
★ =

d

	☺	4	1
-	2	3	☺
3	0	6	

☺ =

Word Problems- Addition/Subtraction, up to 4-digits [1]

First Draw a  around the question.

Second Underline key words.

Third  important numbers.

Fourth Solve the problem. Show all your thinking.

1. The local community has 1,205 street lights. 1,097 of them currently work. How many are broken?

2. Thomas is buying a flat screen TV. It usually costs \$5,572. It will be on sale this weekend for \$4,690. How much money will Thomas save if he buys the TV on sale?

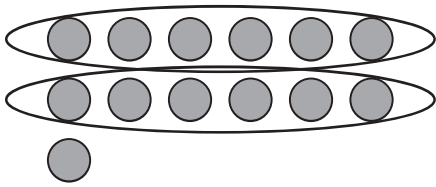
3. Harry bought a new mountain bike for \$2,059. He also bought some accessories that totalled \$473. How much did Harry spend altogether?

4. The local ice cream shop sold 855 scoops of strawberry ice cream during the week. They sold twice as many scoops of chocolate. How many scoops of chocolate ice cream did they sell?

5. Riders who complete the Tour de France ride a total of 3,529 kilometres. Last year a rider had an accident 68 kilometres from the end. How far had they ridden before the accident?

Division – remainders

Sometimes division is not exact.

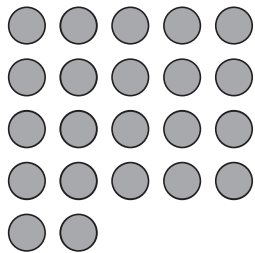


From 13, we can make 2 fair shares of 6 with 1 left over. We call the left over the remainder.

$$13 \div 6 = 2 \text{ remainder } 1$$

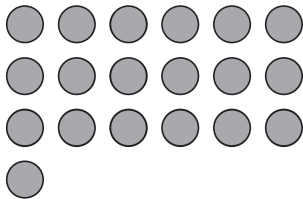
1 In each array, ring the fair shares to see the remainder:

a



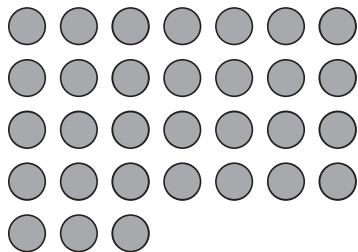
$$22 \div 5 = \square \text{ remainder } \square$$

b



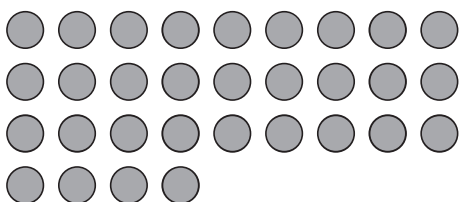
$$19 \div 6 = \square \text{ remainder } \square$$

c



$$31 \div 7 = \square \text{ remainder } \square$$

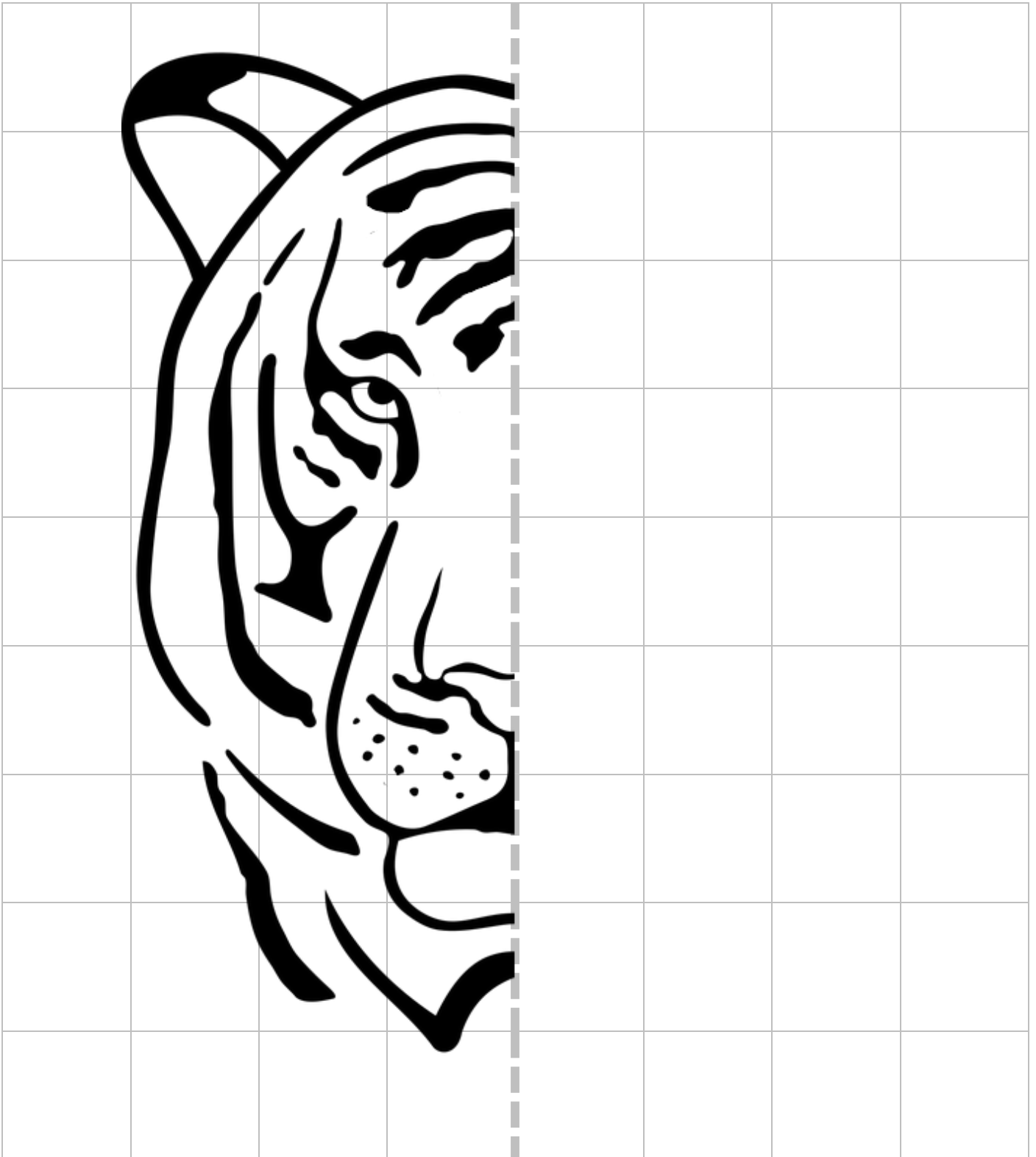
d



$$31 \div 9 = \square \text{ remainder } \square$$

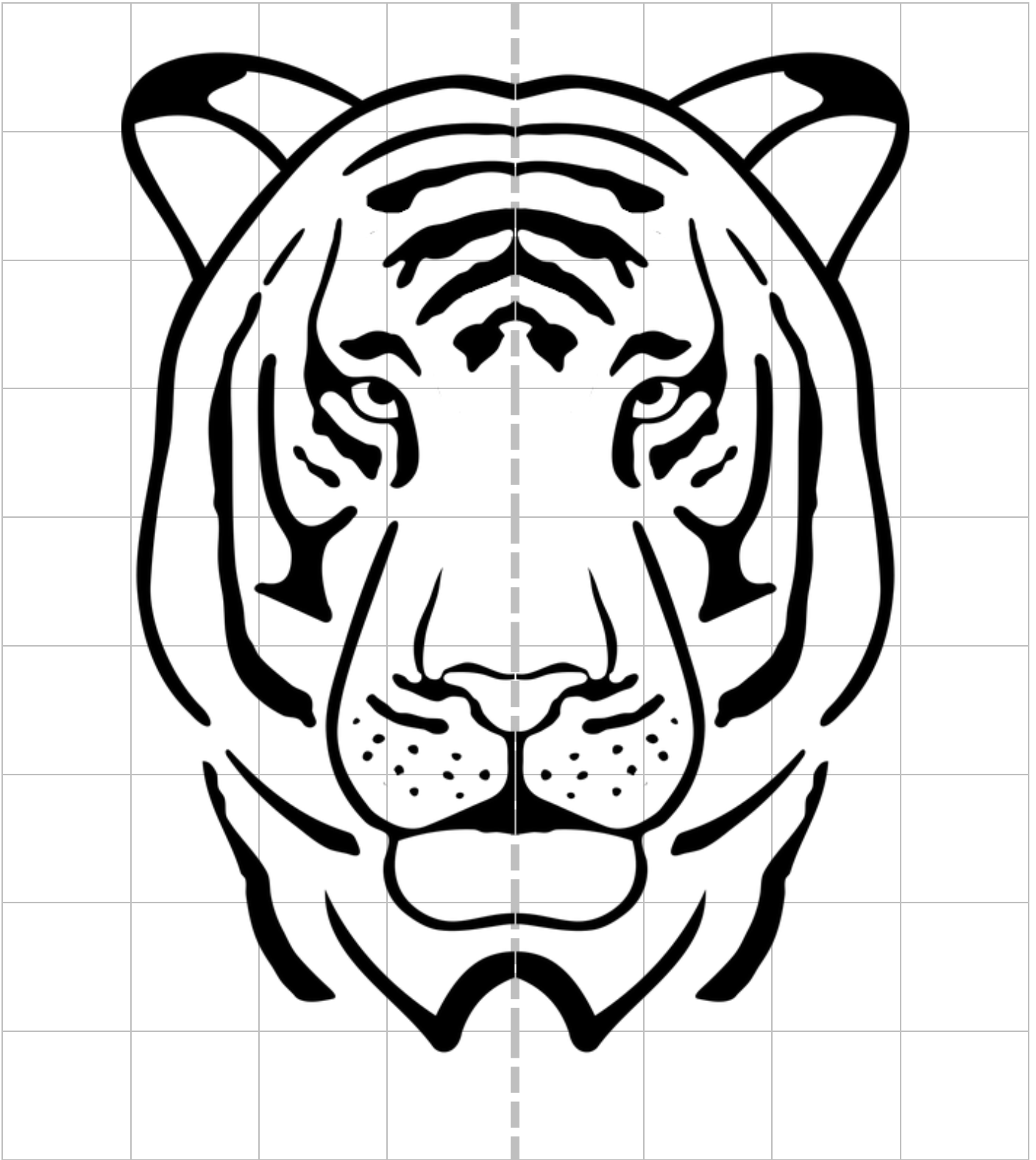
Symmetry


Complete this picture using the line of symmetry and grid squares to help you.



Symmetry **Answers**

Complete this picture using the line of symmetry and grid squares to help you.





Friday

Minute 34



Name: Date:

1. Sam buys milk in the cafe for 55c.
He gives the person who served him 70c.

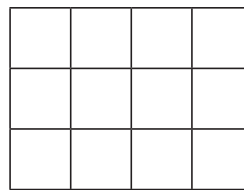
How much change will he receive?

2.
$$\begin{array}{r} 24 \\ + 48 \\ \hline \end{array}$$

.....

3. The area of the shape is 12 square units.

Circle: True or False



4.
$$\begin{array}{r} 80 \\ - 48 \\ \hline \end{array}$$

.....

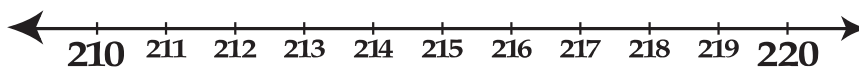
5. $10 \times 2 =$

6. $17 +$ $= 28$

7. Circle the abbreviation for **centimetre**. cm Cm cM

8. $45 \div 5 =$

For Questions 9 and 10, round the number to the nearest ten.



9. 212 rounds to

10. 217 rounds to

My score:

10

My time:

.....
minutes

.....
seconds

Written methods – short division

Another way to represent division is with the division symbol.

	T	U
		6
		6
		6
		6

This is the same as $36 \div 6 = 6$

If the answer is a single digit, it should go in the units column.

1 Solve these division problems using the division symbol:

a

		□
		□
		□
		□
		□

b

		□
		□
		□
		□
		□

c

		□
		□
		□
		□
		□

d

		□
		□
		□
		□
		□

e

		□
		□
		□
		□
		□

f

		□
		□
		□
		□
		□

g

		□
		□
		□
		□
		□

h

		□
		□
		□
		□
		□

i

		□
		□
		□
		□
		□

2 Use the division symbol to solve each problem:

a 42 cupcakes were iced by 7 kids. If they each iced the same amount, how many did they ice each?

		□
		□
		□
		□
		□

b How many pots were used if 6 seeds were planted in each pot from a packet of 54?

		□
		□
		□
		□
		□

c I run the same distance each day. Over 9 days the total distance is 72 km. How far did I run each day?

		□
		□
		□
		□
		□

Money – finding change

When you buy something and you don't have the exact combination of notes and coins, you can pay with a larger amount and get the difference back. This is called change.

If I paid for these flowers with \$20, my change would be \$8.



- 1** Find the change for each amount below. You could bridge to the next dollar and count on or use a written subtraction. Show all your workings:

a I had \$100. I spent \$68.

Change =

b I had \$50. I spent \$22.

Change =

c I had \$20. I spent \$16.50.

Change =

d I had \$120. I spent \$60.

Change =

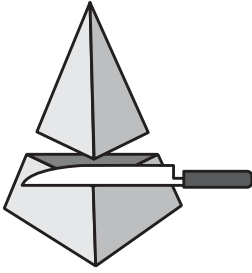
e I had \$100. I spent \$75.

Change =

f I had \$50. I spent \$42.

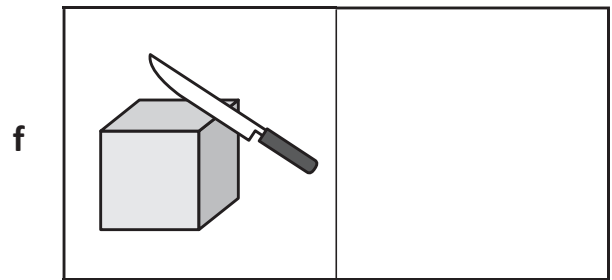
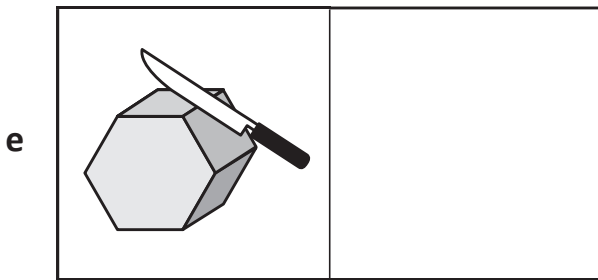
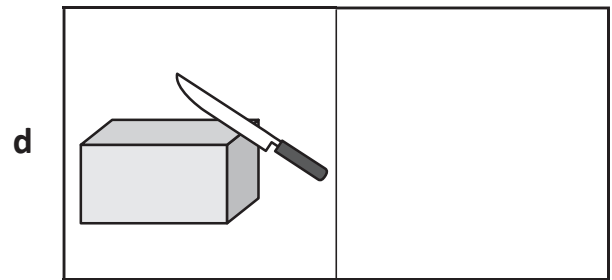
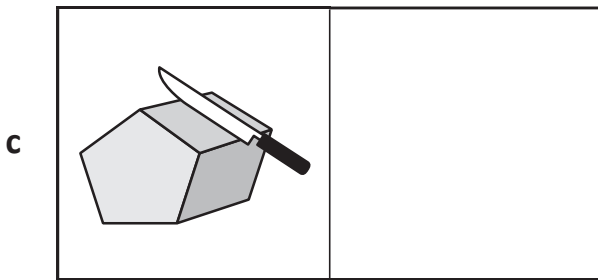
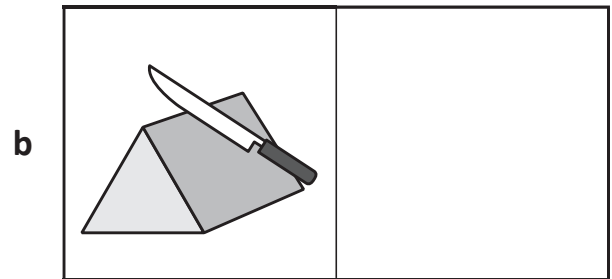
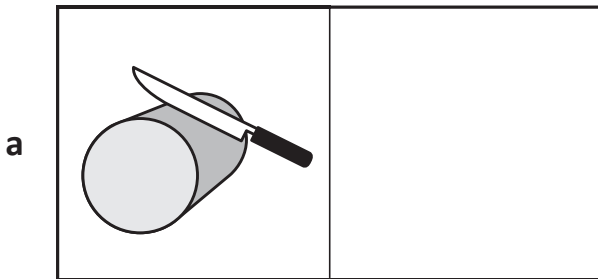
Change =

Investigating 3D shapes – cross sections



A cross section is what you see when you slice right through something.

1 Draw the cross section next to each shape:



2 Draw a line on each shape to show where you would cut to get the smallest possible circle.

