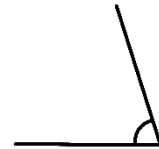
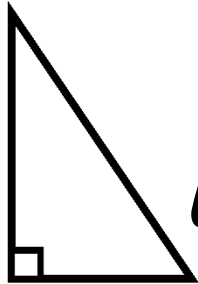
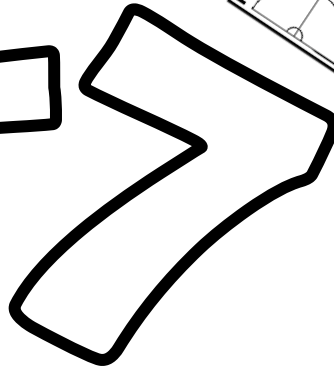
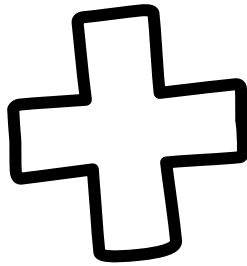
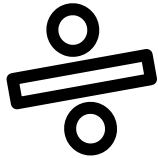
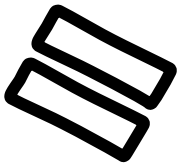
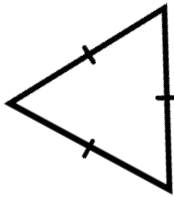
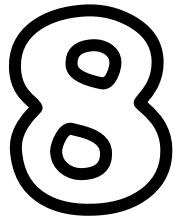
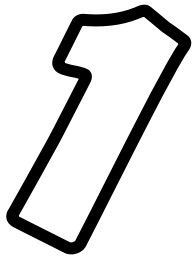


Mathematics

Grade 4

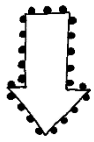


Name: _____

Class: _____

Teacher: _____

Count forward and back



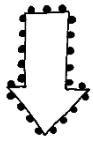
8800



8825



7925



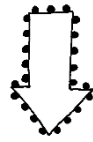
9900



9700



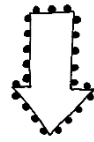
9300



6620



6630



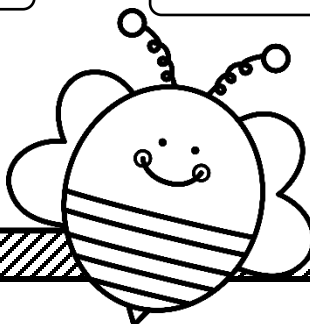
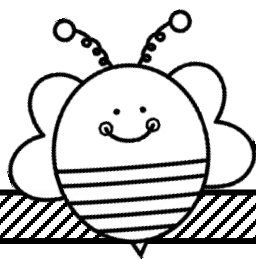
9965



9970



10000



Place value

Write the place value of the underlined numbers.

3489

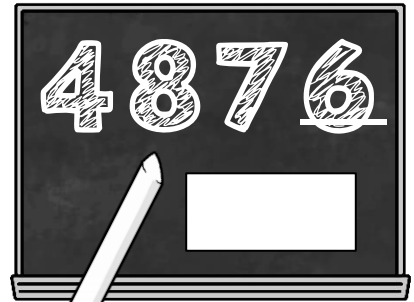
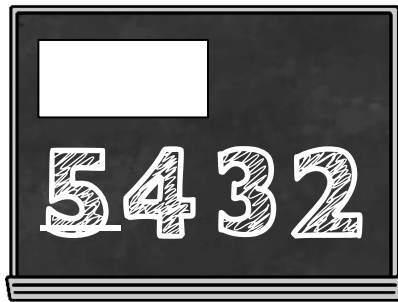
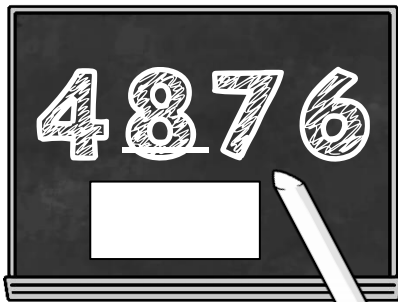
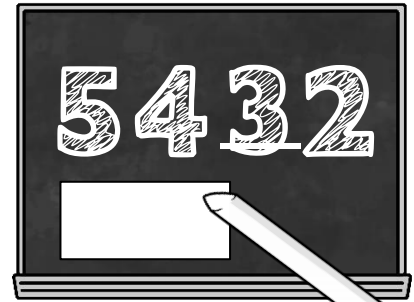
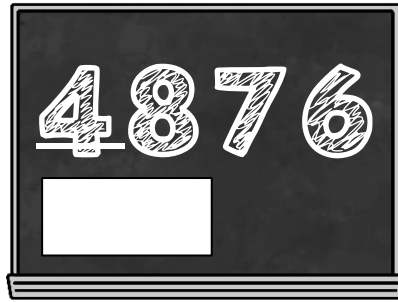
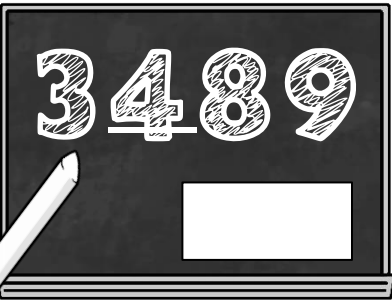
4876

5432

4876

5432

4876



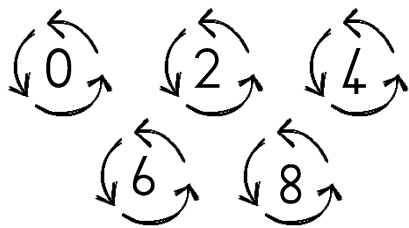
EXPANDED NOTATION

Break up the numbers in the table.

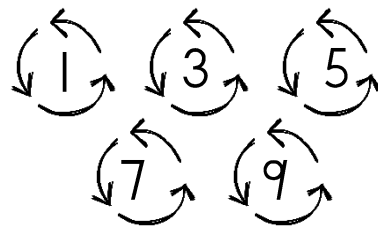
9256		+		+		+	
4389		+		+		+	
2341		+		+		+	
6254		+		+		+	
1456		+		+		+	

ODD and EVEN numbers

Even numbers end on:



Odd numbers end on:



Color the EVEN numbers BLUE.

133

368

346

231

822

925

747

540

Color the ODD numbers PURPLE.

346

747

925

368

540

231

133

822

ROUND OFF

Round the following numbers off to the nearest 10, 100 and 1000.

Number	10	100	1000
8763			
6385			
3941			
9854			
4539			

LET'S ORGANIZE



Organize the numbers in the balloons from least to greatest.

Organize the numbers in the balloons from greatest to least.

Fun with Sums

Break down method

Example:

$$289 + 492 + 447$$

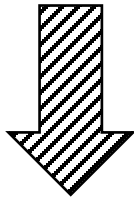
$$= (200 + 400 + 400) + (80 + 90 + 40) + (9 + 2 + 7)$$

$$= (1\ 000) + (210) + (18)$$

$$= 1\ 000 + 200 + (10+10) + 8$$

$$= 1\ 000 + 200 + 20 + 8$$

$$= 1\ 228$$



$$484 + 537 + 273$$

$$116 + 384 + 145$$

$$1453 + 543$$

Compensation method

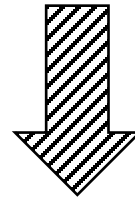
Example:

$$57 + 96$$

$$= 57 + 3 + 96 - 3$$

$$= 60 + 93$$

$$= 153$$



$$26 + 95$$

$$25 + 15$$

$$17 + 45$$



DOUBLE AND HALF

Double the following numbers. Show your steps.

Example:

25: $25 + 25 = 50$ or $25 \times 2 = 50$

50

15

30

24

Divide the numbers in half.

240

150

308

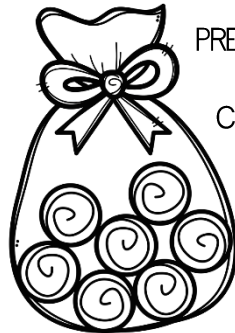
500

450

482

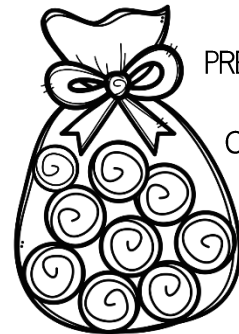
PREDICTION

Predict how many sweets there is in each bag.



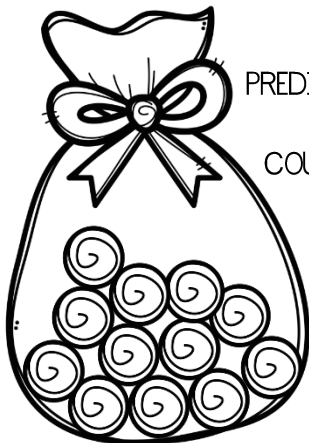
PREDICT

COUNT



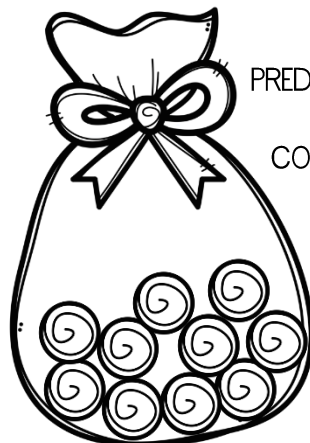
PREDICT

COUNT



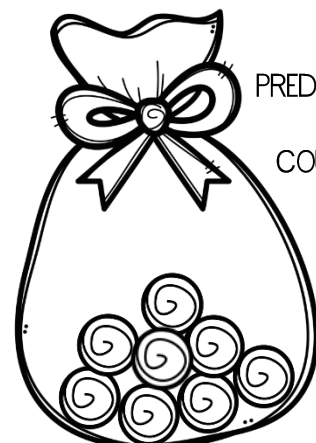
PREDICT

COUNT



PREDICT

COUNT



PREDICT

COUNT

FACTORS AND MULTIPLES

Multiples are what we get after multiplying the number by an integer.

Example:

Multiples of 3 = 3; 6; 9; 12; 15; 18;

A factor is one of two or more numbers that divides a given number without a remainder.

Example:

Factors of 8 = 1; 2; 4; 8.

1. Write down the first six multiples of 3?

2. Write down the first six multiples of 8?

3. Write down the multiples of 6 between 40 and 60.

4. Draw a circle around the multiples of 7.

28 36 49 56 22 63 41

←-----→

1. Write down the factors of 8.

2. Write down the factors of 12.

3. 1, 2, 5 and 10 are factors of ____

4. Draw a circle around the factors of 9.

6 3 8 1 9 4

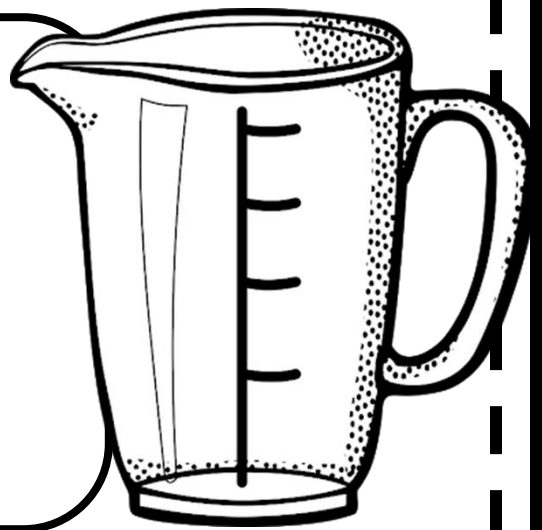
Capacity and Volume

CAPACITY

Capacity is how much liquid a 3-dimensional figure can hold.

VOLUME

Volume is the amount of space inside a solid figure.



1. If one tablespoon equals 15ml, how much will the following be?

Amount of tablespoons	Capacity (ml)
3	
	30
6	
	60

2. If one cup equals 250ml, how much will the following be?

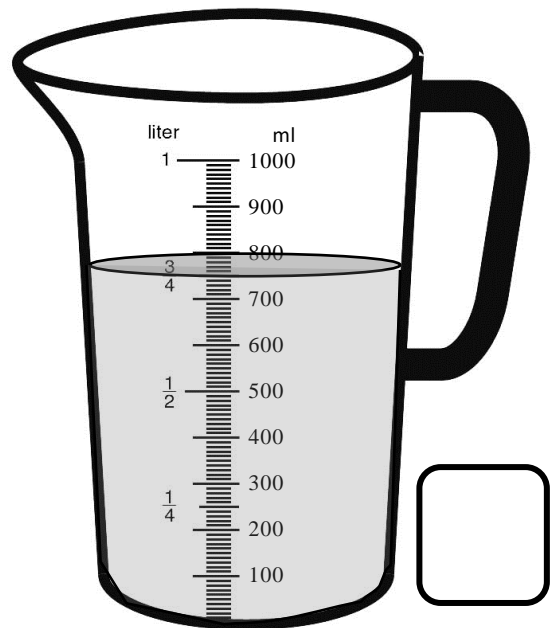
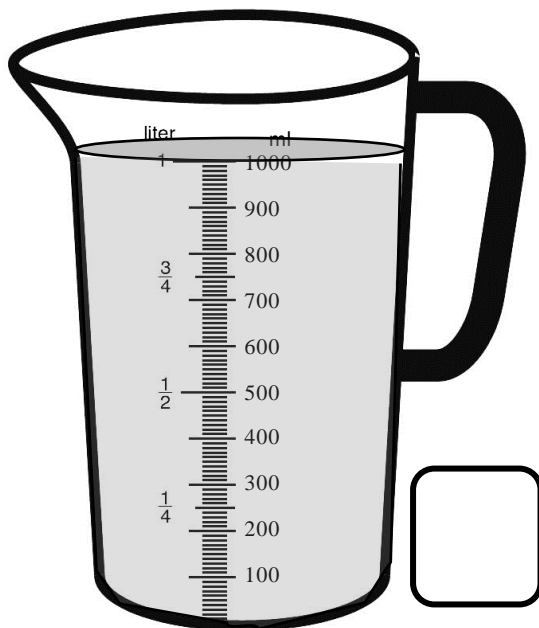
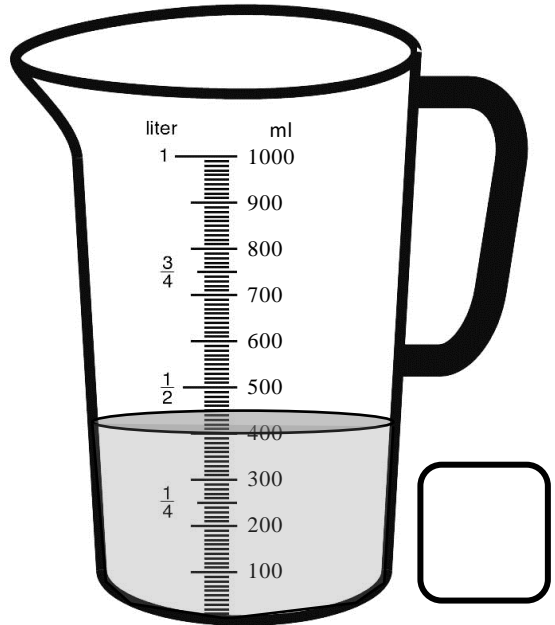
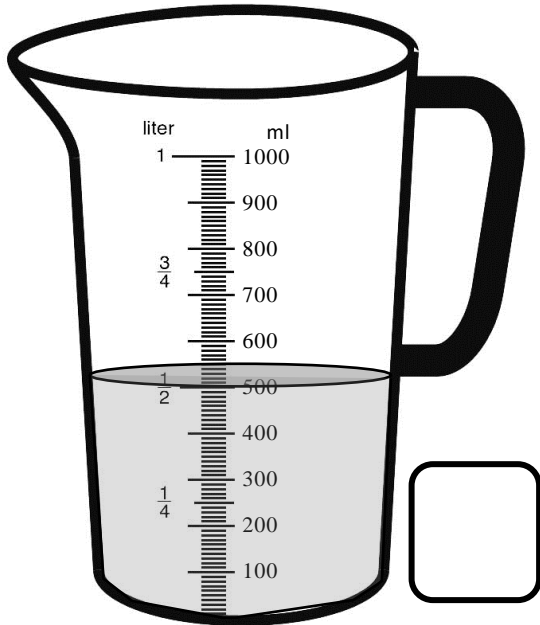
Amount of cups	Capacity (ml)
2	
	750
5	
	1000

3. Solve the problem.

If one calf drinks 4 liters of milk per day, how many liters of milk will 86 calves drink?

Capacity and Volume

What is the capacity of each measuring cup? Write the answer in the blocks.



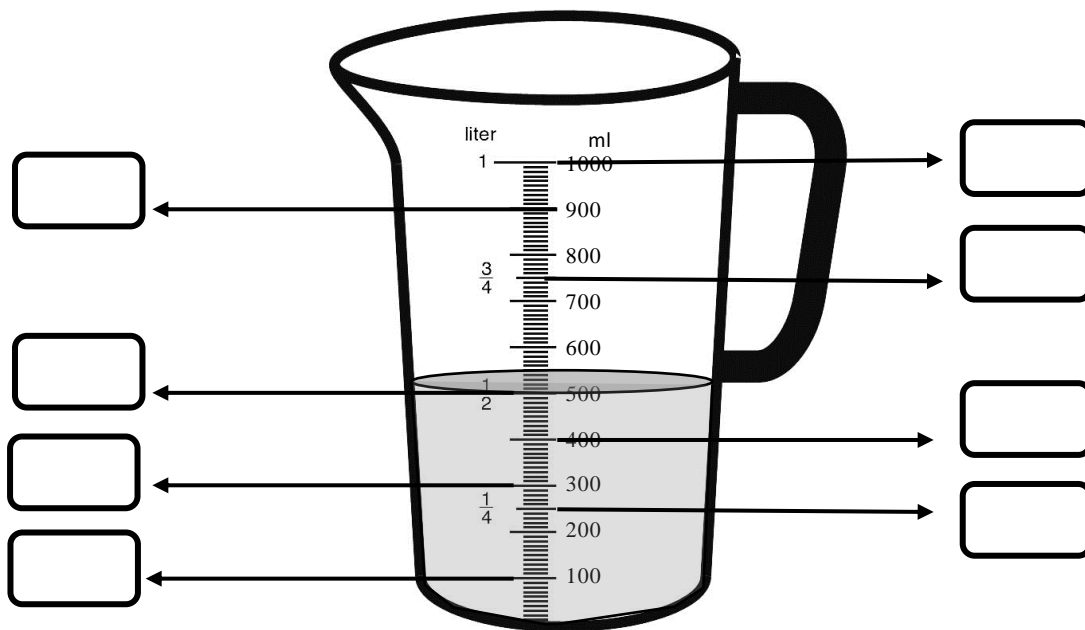
What is the volume of the measuring cups? _____

ml

and

L

Write the capacity of each arrow in the blocks.

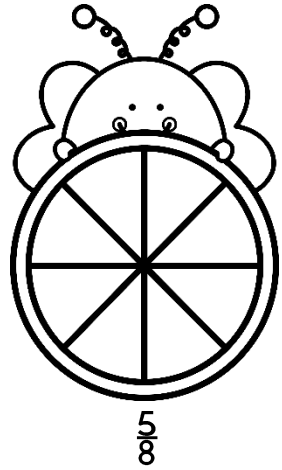
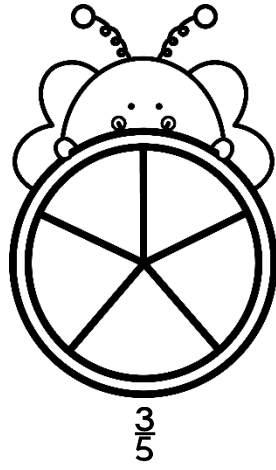
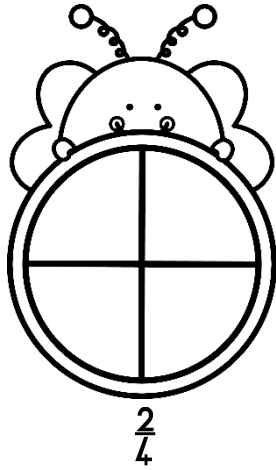
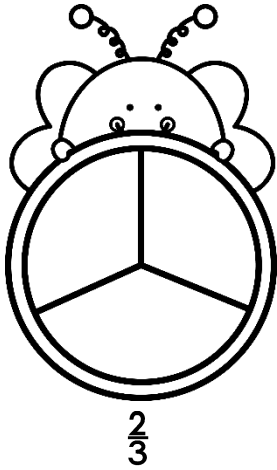


Fill in $<$, $>$ or $=$

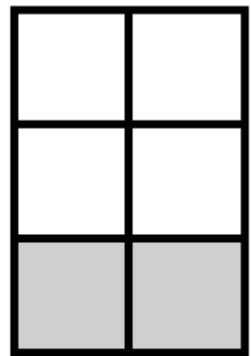
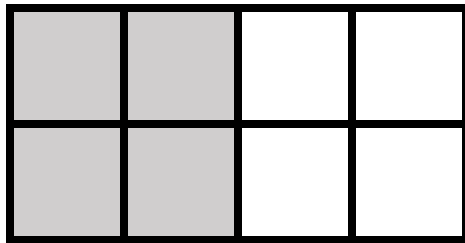
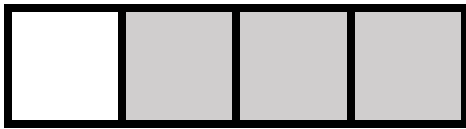
- 1000ml _____ 1 L
- 4 cups _____ 1 L
- 4 tablespoons _____ 60ml
- 1 L _____ 2000ml
- 2 teaspoons _____ 15ml
- 1/2 L _____ 500ml
- 3 tablespoons _____ 45ml
- 45ml _____ 25ml
- 10 cups _____ 4500ml

FRACTIONS

Color in the circles according to the fractions.



What fraction is colored in?



Write the fractions of the words.

1. Two thirds: _____
2. Quarter: _____
3. Two fifths: _____
4. Half: _____

ADDITION OF FRACTIONS

Addition of fractions with the same numerator.

Example:

$$\frac{1}{4} + \frac{2}{4}$$
$$= \frac{3}{4}$$

Calculate the following sums.

4. $\frac{2}{5} + \frac{1}{5}$

5. $\frac{2}{10} + \frac{1}{10} + \frac{3}{10}$

6. $\frac{3}{4} + \frac{1}{4}$

SUBTRACTION OF FRACTIONS

Subtraction of fractions with the same numerator.

Example:

$$\frac{5}{6} - \frac{4}{6}$$
$$= \frac{2}{6}$$

Calculate the following sums.

1. $\frac{9}{10} - \frac{5}{10}$

2. $\frac{7}{8} - \frac{3}{8}$

3. $\frac{5}{7} - \frac{2}{7}$

- Ben has a block of chocolate which has 6 blocks. He has eaten 2 blocks. What fraction of the chocolate is left?

- Carla ate $\frac{1}{10}$ of a chocolate cake before dinner and another $\frac{1}{10}$ after dinner.
 - What fraction of the chocolate cake did she eat altogether?

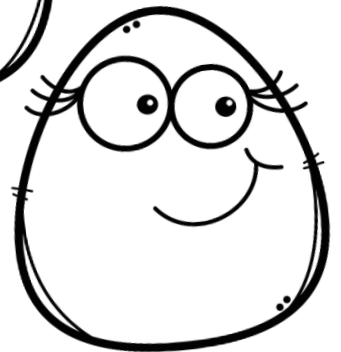
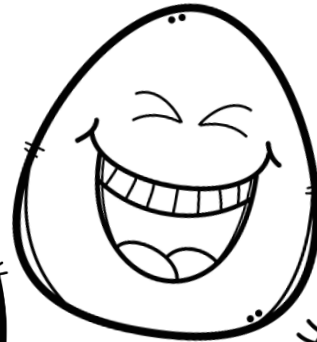
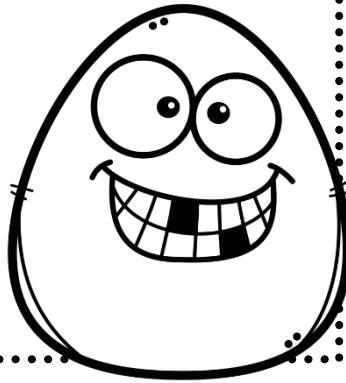
 - What fraction of the cake was left over?

Multiplication

METHOD

EXAMPLE:

$$\begin{array}{r} 46 \\ \times 32 \\ \hline 92 \\ + 1380 \\ \hline 1472 \end{array}$$



Use the method above to calculate the sums.

4. 34×52

1. 64×24

5. 28×76

2. 85×36

6. 43×27

3. 23×56

TRANSFORMATIONS

ROTATION

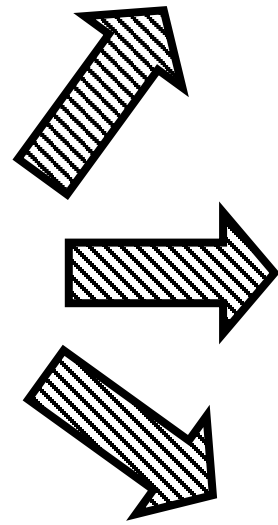
Rotation means the turning of a object around a center.

REFLECTION

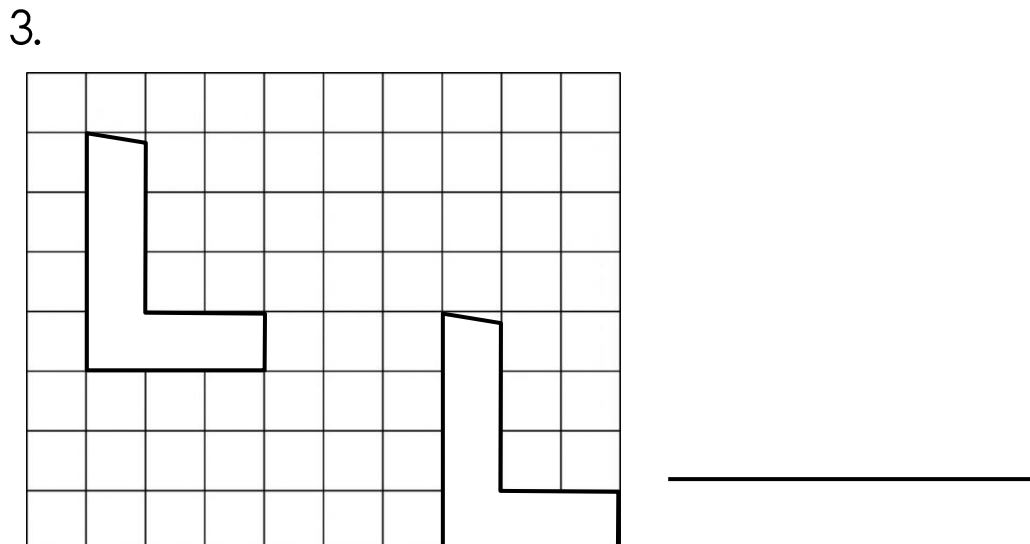
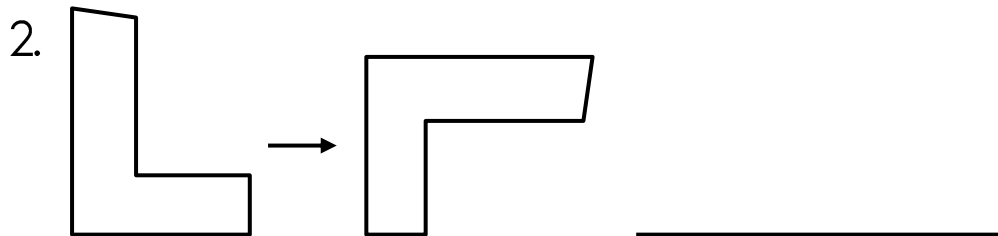
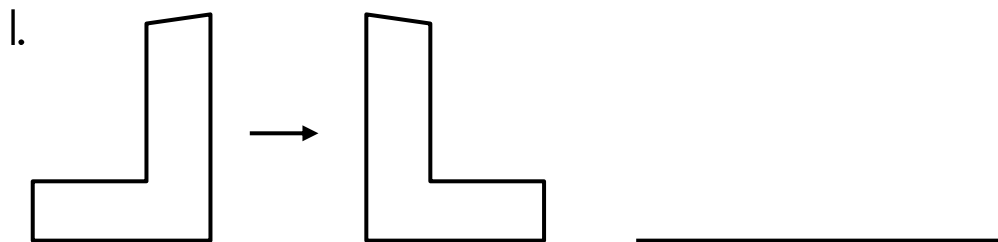
A reflection is a flip over a line. When you reflect a shape, you flip it across an imaginary 'mirror line.' It looks the exact same, except it is facing another direction.

TRANSLATION

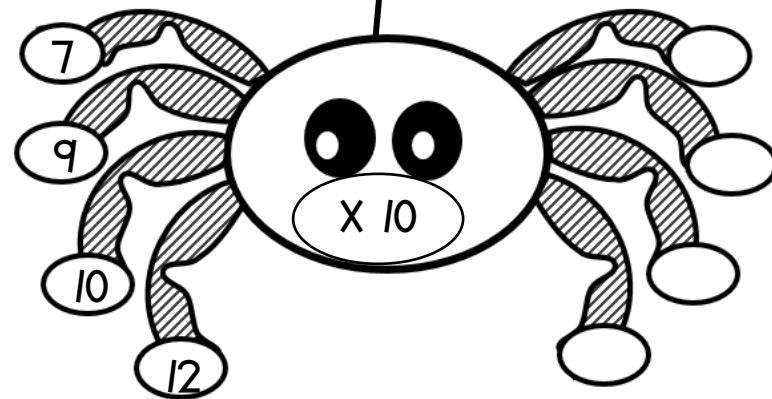
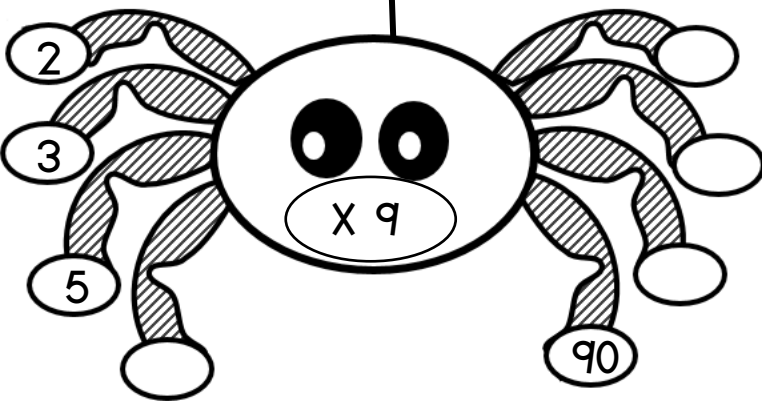
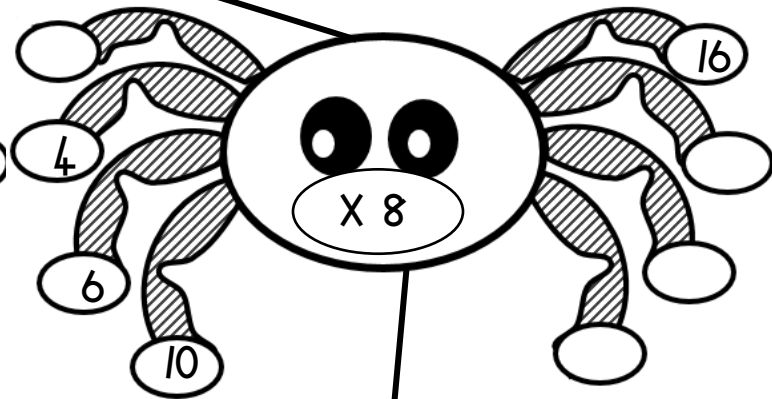
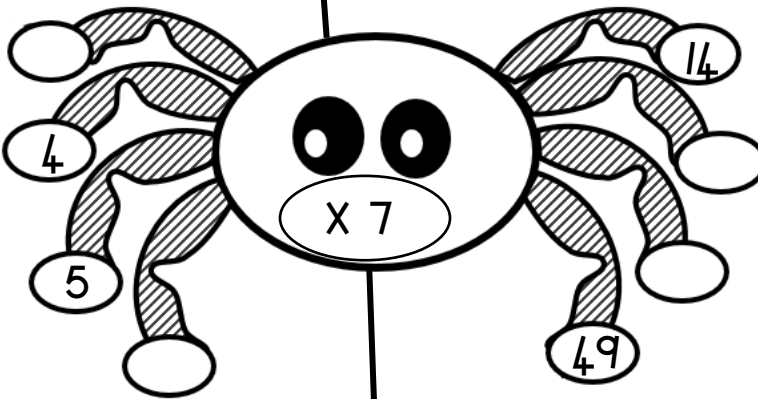
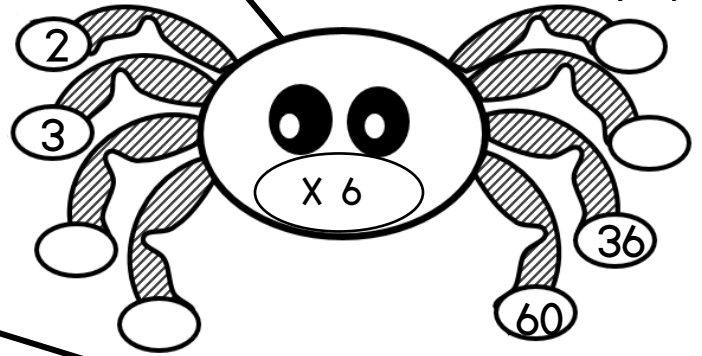
Translation simply means moving. Without rotating, resizing or anything else, just moving.



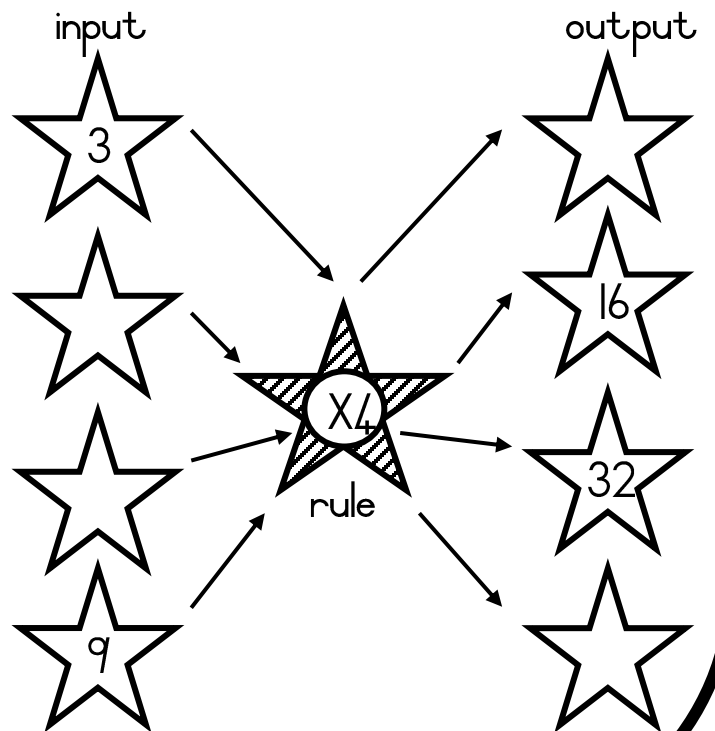
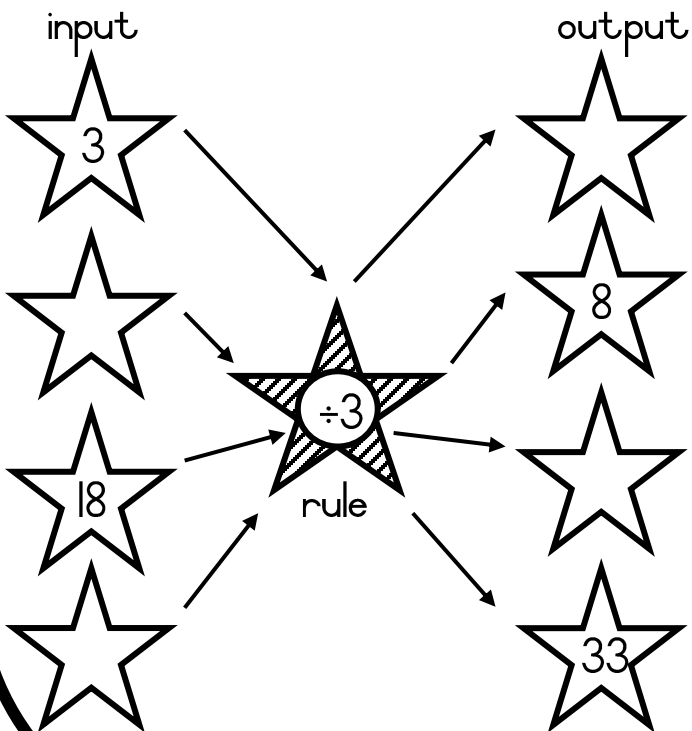
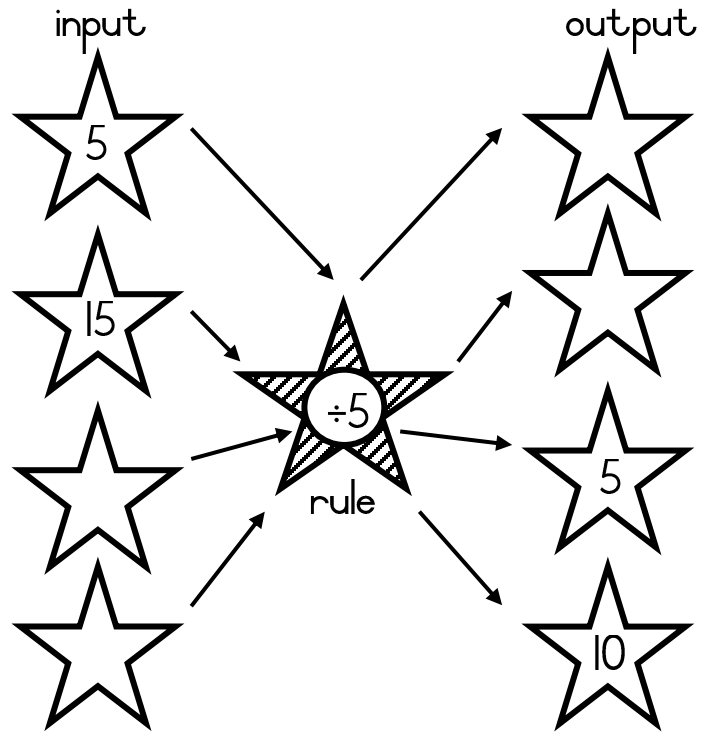
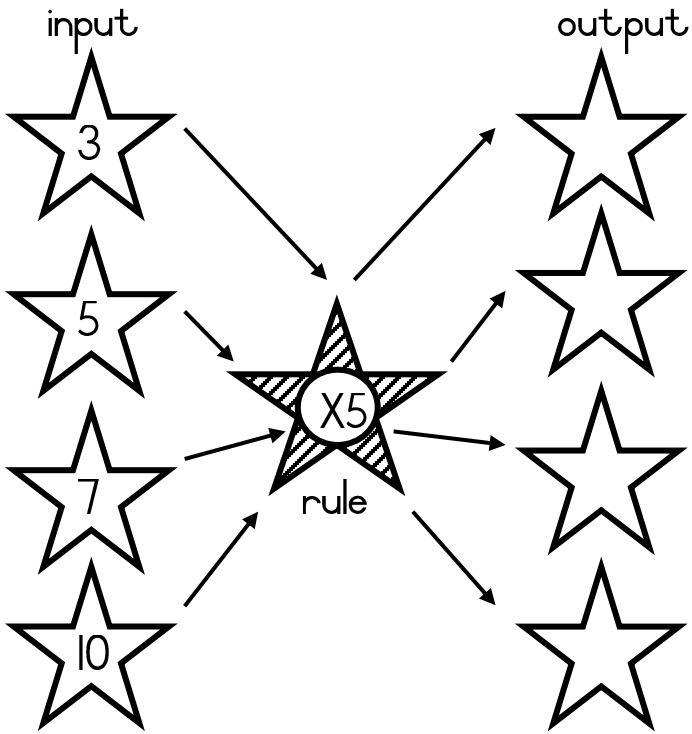
Is the following movements a reflection, rotation or translation?

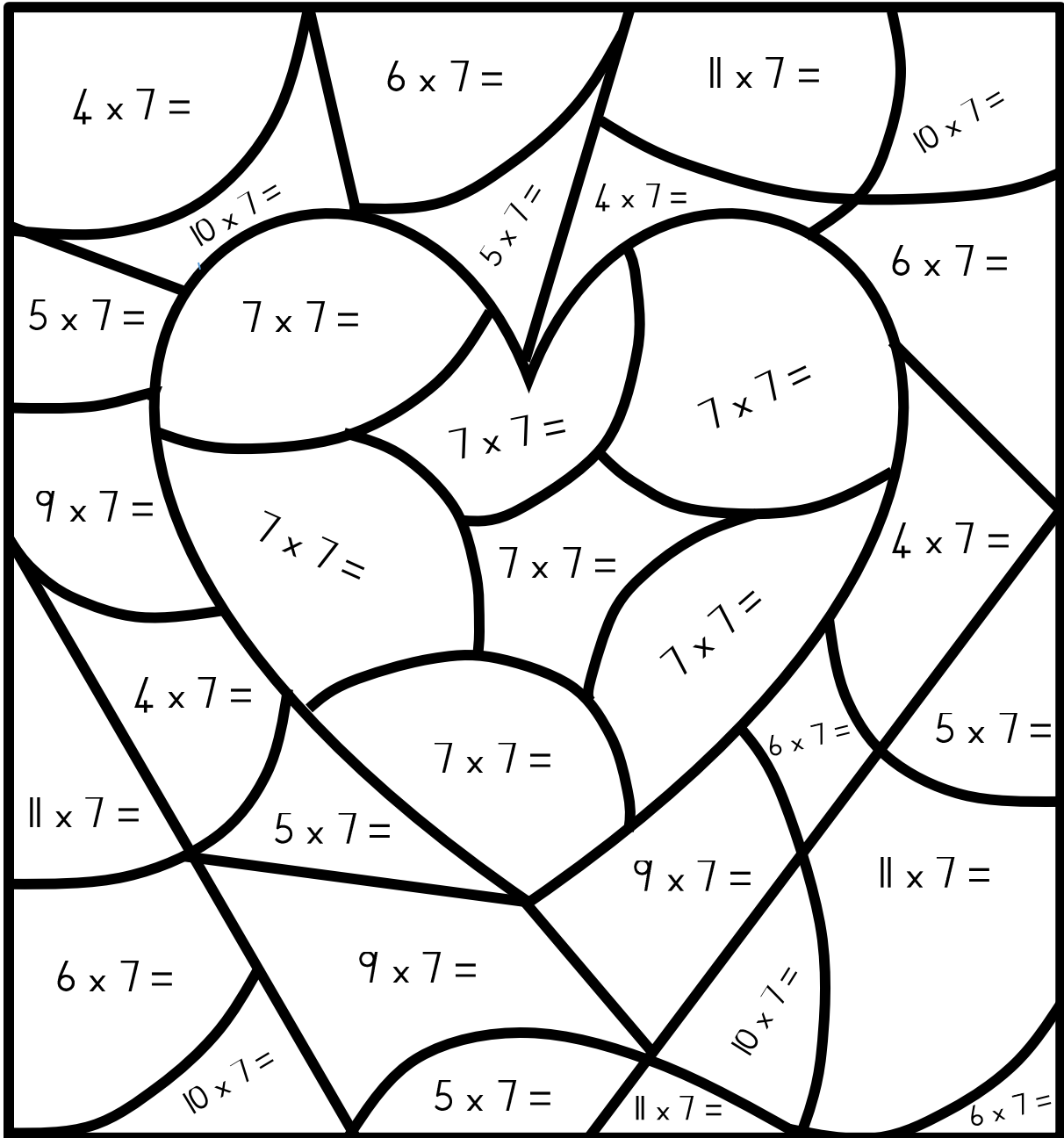


Spider Flow diagrams



FLOW DIAGRAMS





$4 \times 7 =$

$6 \times 7 =$

$11 \times 7 =$

$10 \times 7 =$

$10 \times 7 =$

$5 \times 7 =$

$4 \times 7 =$

$5 \times 7 =$

$7 \times 7 =$

$6 \times 7 =$

$7 \times 7 =$

$7 \times 7 =$

$9 \times 7 =$

$7 \times 7 =$

$7 \times 7 =$

$4 \times 7 =$

$4 \times 7 =$

$7 \times 7 =$

$7 \times 7 =$

$6 \times 7 =$

$5 \times 7 =$

$11 \times 7 =$

$5 \times 7 =$

$9 \times 7 =$

$11 \times 7 =$

$6 \times 7 =$

$9 \times 7 =$

$10 \times 7 =$

$5 \times 7 =$

$11 \times 7 =$

$10 \times 7 =$

$6 \times 7 =$

CODE

49 - red

28 - purple

70 - pink

42 - yellow

63 - green

77 - blue

35 - orange

CODE

7 - red

4 - purple

10 - pink

6 - yellow

9 - green

11 - blue

5 - orange

CODE

5 - skin color

10 - yellow

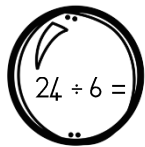
9 - purple

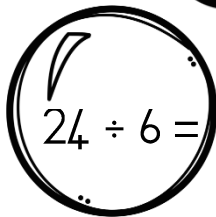
3 - brown

11 - orange

4 - blue

6 - green


$$24 \div 6 =$$


$$24 \div 6 =$$

$$18 \div 6 =$$

$$30 \div 6 =$$

$$30 \div 6 =$$

$$30 \div 6 =$$

$$30 \div 6 =$$

$$36 \div 6 =$$

$$36 \div 6 =$$

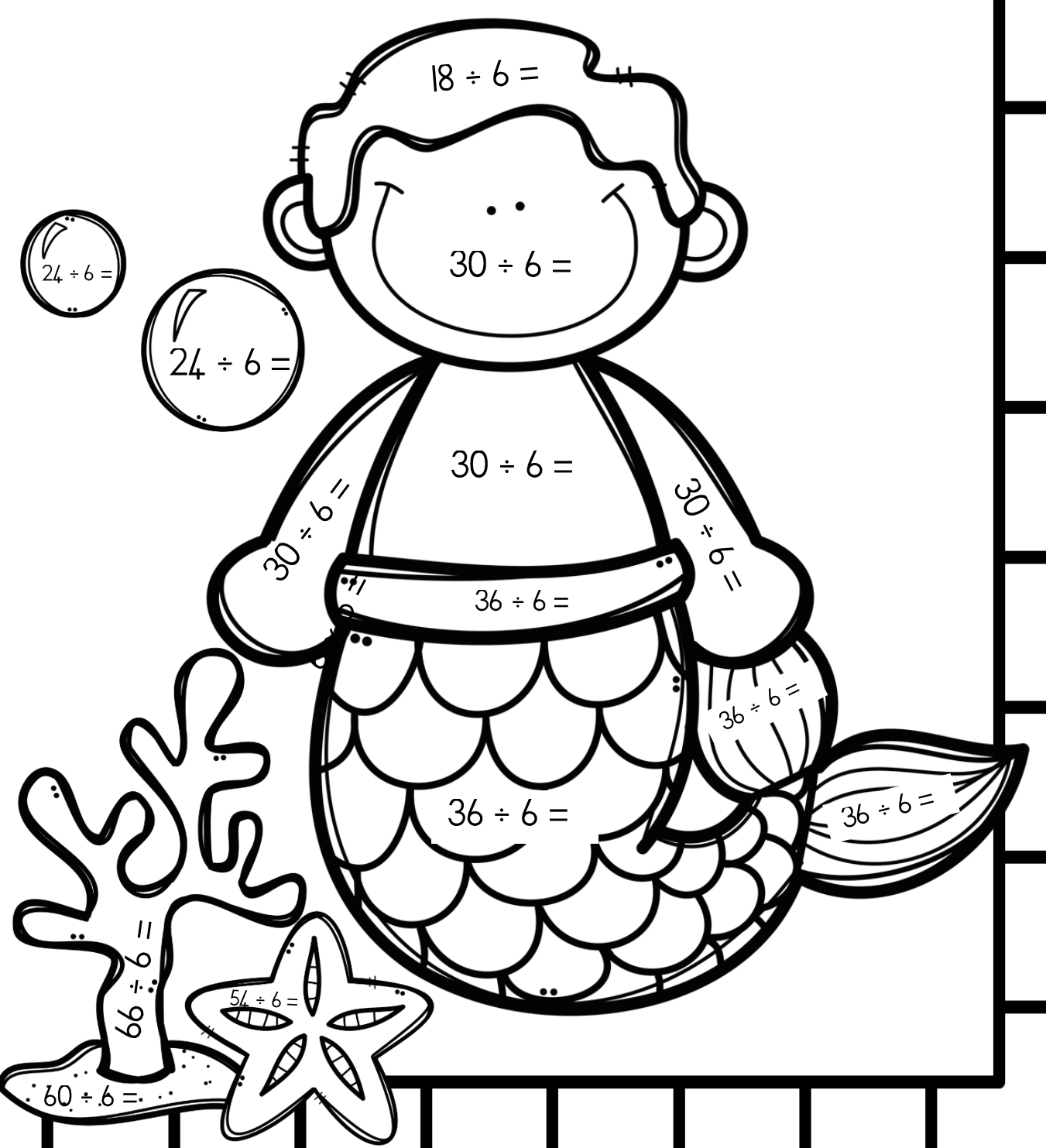
$$36 \div 6 =$$

$$36 \div 6 =$$

$$66 \div 6 =$$

$$54 \div 6 =$$

$$60 \div 6 =$$



CODE

30 - skin color

60 - yellow

48 - orange

36 - purple

12 - pink

18 - blue

24 - green

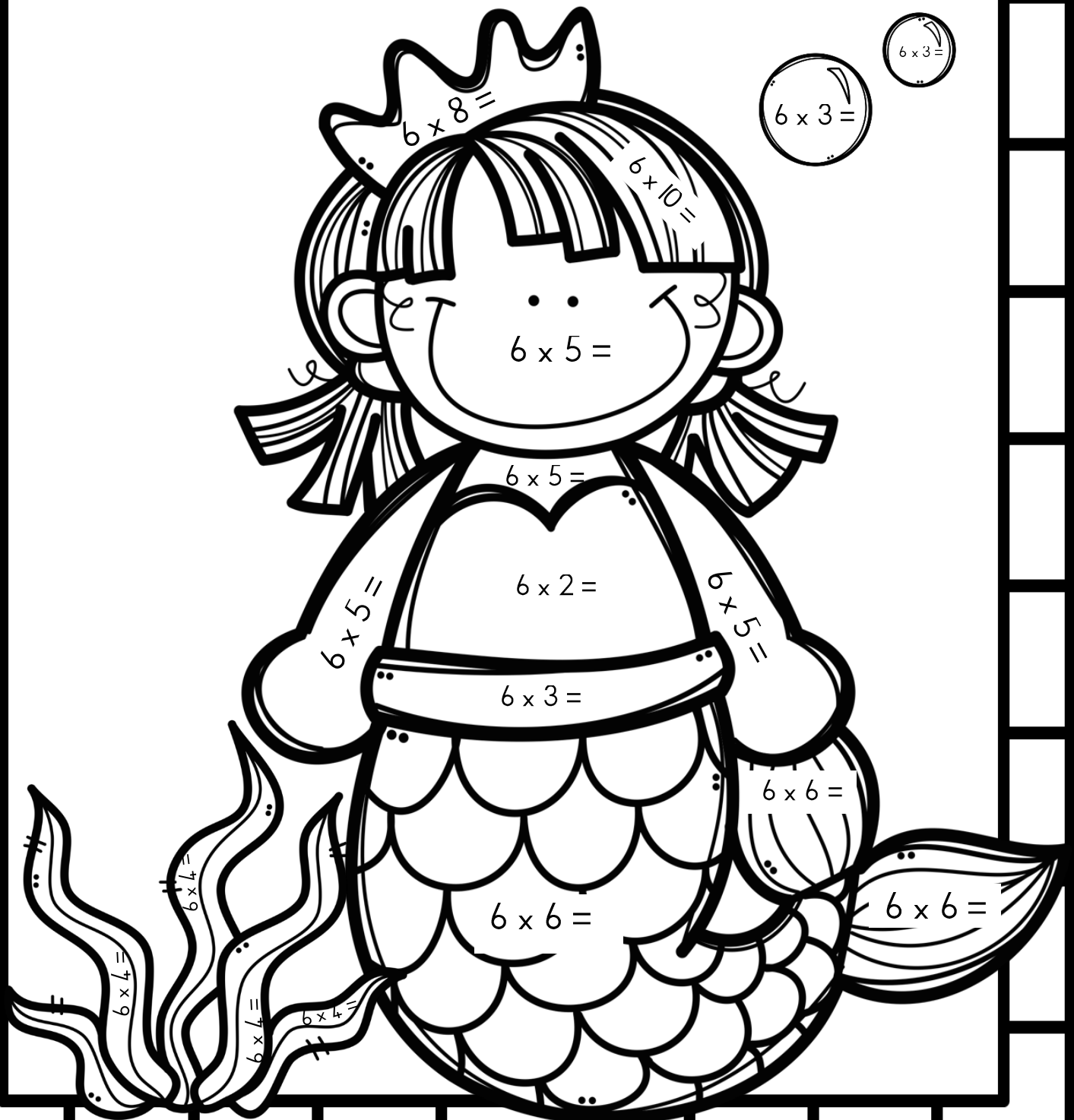
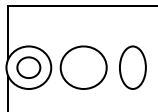

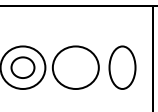
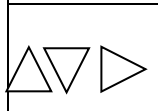
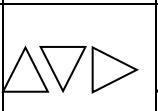
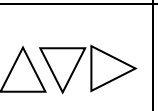
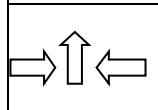
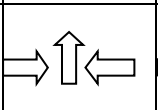
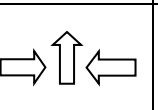
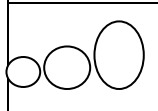
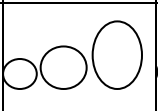
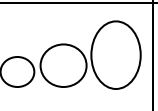
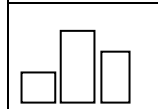
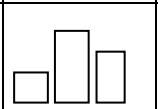
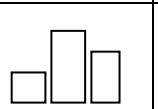


DIAGRAM PATTERNS

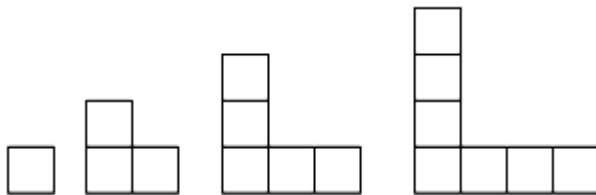
Draw the next 5 patterns in the table.

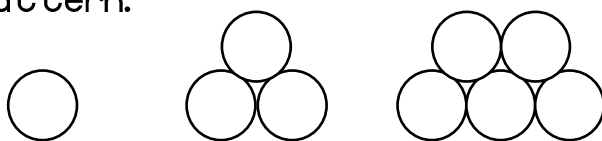
How many matches will there be in the 4th pattern? Draw the 4th pattern.



How many blocks will there be in the 4th pattern? Draw the 4th pattern.

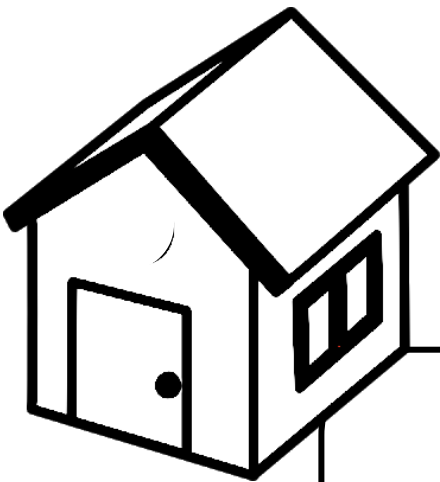
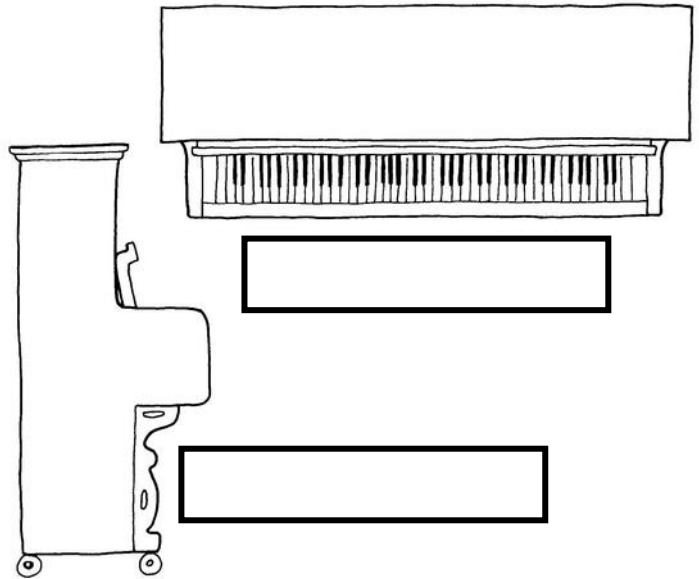
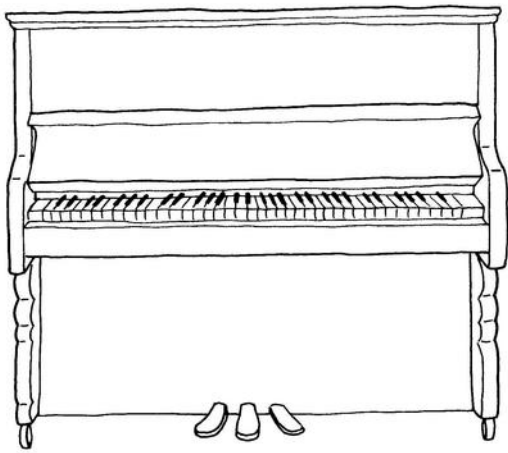
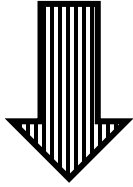


How many circles will there be in the 4th pattern? Draw the 4th pattern.



VIEWS

The front view of the piano is shown below. Name the top view and side view of the other two pictures in the blocks.



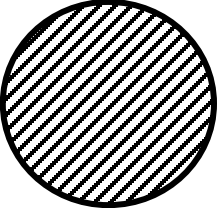
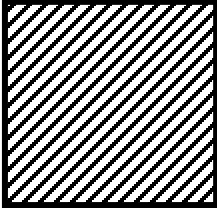

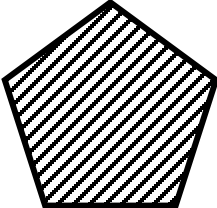
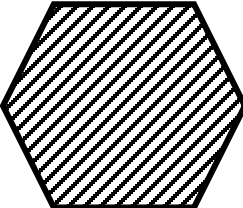
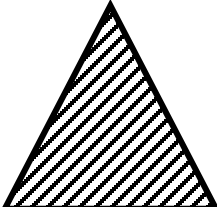
Draw the top view and side view of the house.

top view

side view

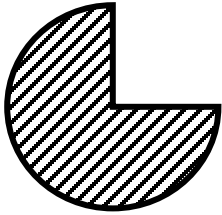
2D SHAPES

Complete the properties of the shapes in the table:

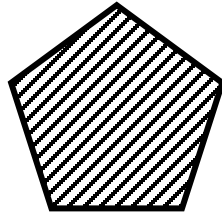
SHAPE	NAME	AMOUNT OF CORNERS	AMOUNT OF SIDES
			
			
			
			
			
			

2D SHAPES

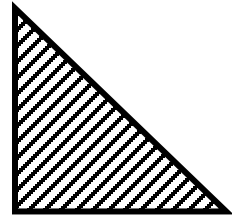
Does the following shapes have a curved, straight OR curved and straight side? Color in the answer.



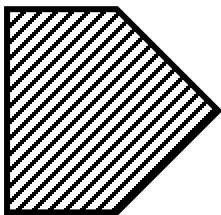
curved sides
straight sides
straight and curved sides



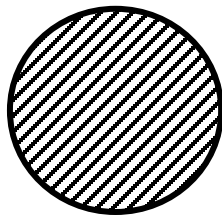
curved sides
straight sides
straight and curved sides



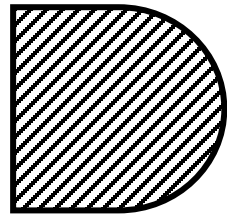
curved sides
straight sides
straight and curved sides



curved sides
straight sides
straight and curved sides



curved sides
straight sides
straight and curved sides



curved sides
straight sides
straight and curved sides

Draw a shape with straight sides.

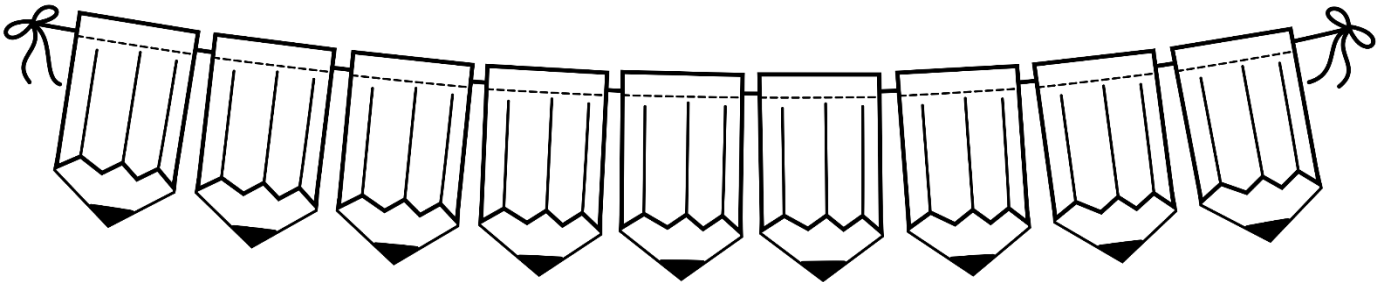


Draw a shape with curved sides.

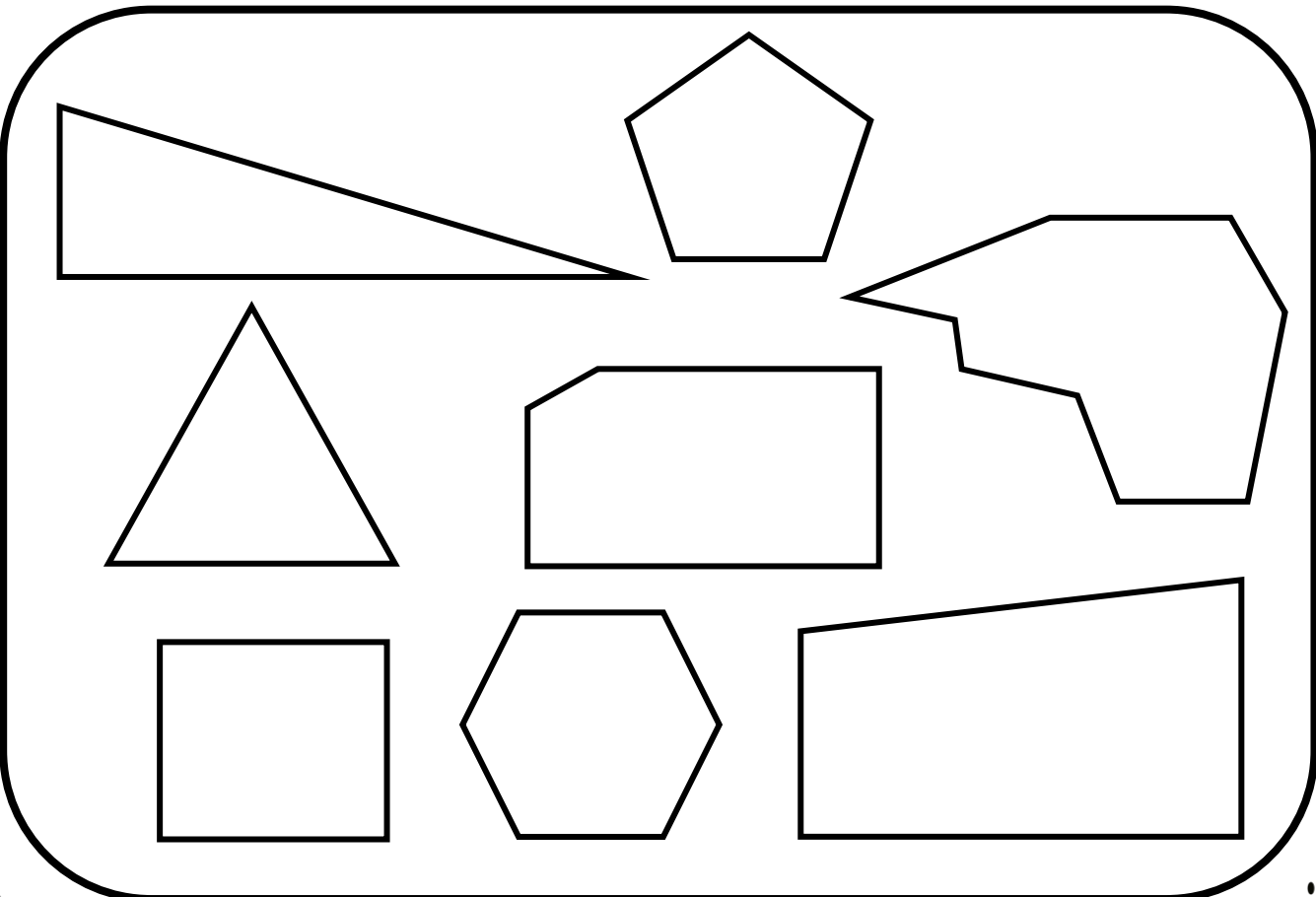
REGULAR AND IRREGULAR POLYGONS:

Regular polygon
A regular polygon has sides of the same length.

Irregular polygon
A irregular polygon has sides of different lengths.

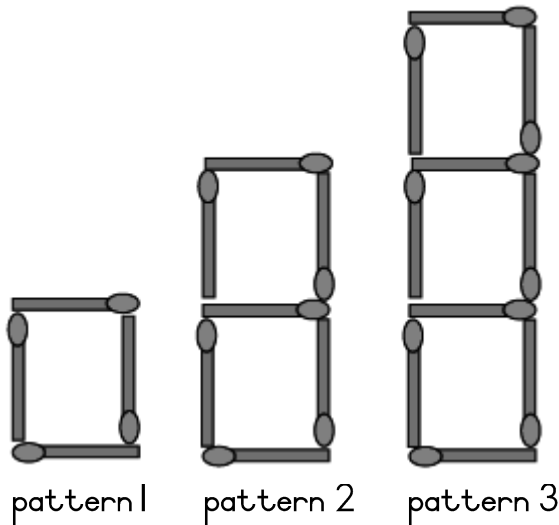


Color all the regular polygons RED.
Color all the irregular polygons BLUE.



Numeric Patterns

1. Look at the patterns below and complete the table.



Pattern	1	2	3	4	5	6
Amount of matches	4	7	10			

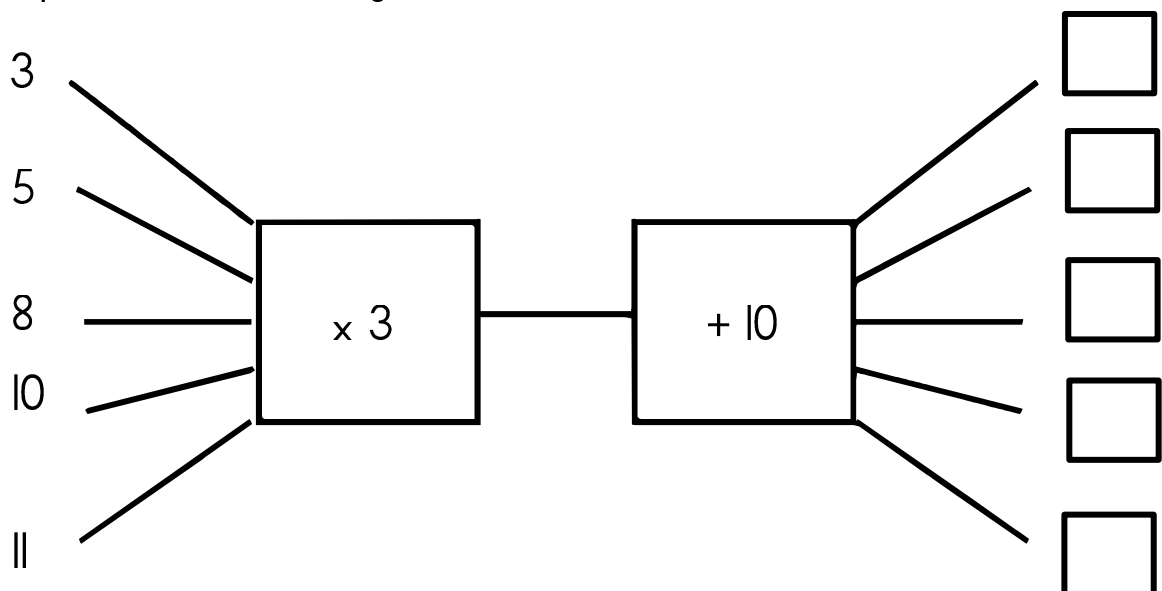
2. Complete the following patterns:

a. 1; 2; 4; 7; _____; _____; _____

b. 1; 6; 11; _____; _____; _____

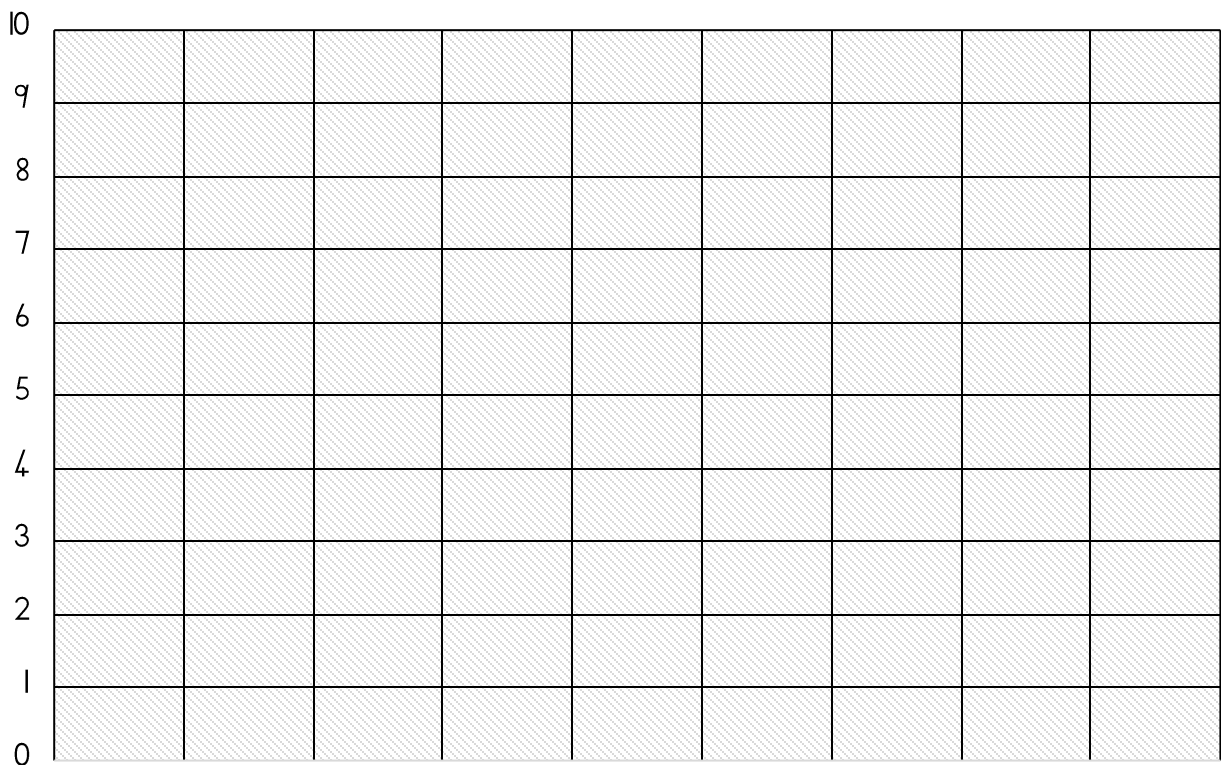
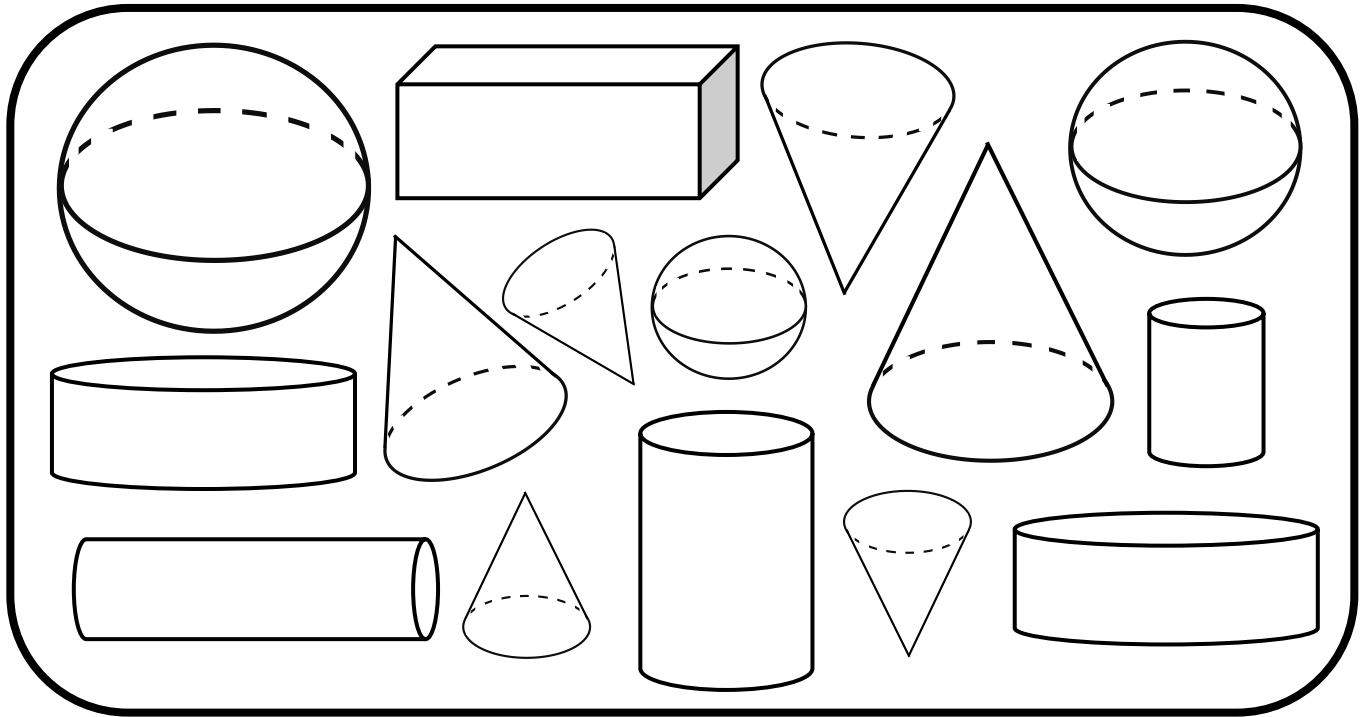
c. 1; 4; 7; 10; _____; _____; _____

3. Complete the flow diagrams.



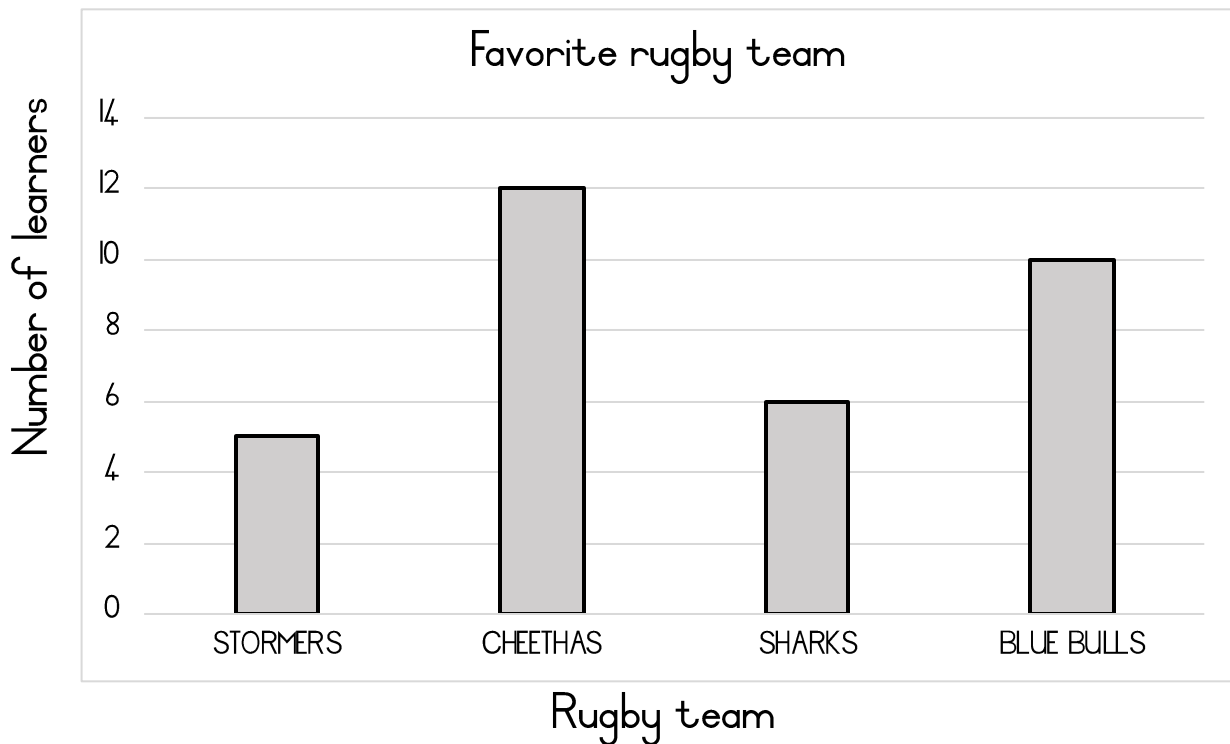
DATA

Make a bar graph by counting the shapes and then coloring the blocks. Remember the headings of your graph.



DATA

The graph below shows which rugby team the learners support. There is 33 learners.



Complete the tally table.

RUGBY TEAM	TALLY	NUMBER
Stormers		
Cheethas		
Sharks		
Blue bulls		

1. Which team does the learners support the most? _____
2. Which team does the learners support the least? _____