

investigating number sequences

Match each rule to the number pattern.

21 18 15 12 9

going up by 5's

25 30 35 40 45

going up by 2's

6 9 12 15 18

going down by 10's

12 14 16 18 20

going up by 3's

50 40 30 20 10

going down by 3's

 investigating and continuing number patterns

Look at each pattern. Write the next three numbers.

2 4 6 8 10 _____

20 30 40 50 60 _____

15 20 25 30 35 _____

50 45 40 35 30 _____

30 27 24 21 18 _____

 ordering numbers to at least 1000

Circle the SMALLEST number: 727 906 717 699 901

Circle the LARGEST number: 638 706 717 599 801

Circle the number between 650 and 750: 638 799 757 701



representing numbers to at least 1000

How many of each block are needed to represent each number?

629

802

H

T

O



H

T

O



represent multiplication as repeated addition, groups and arrays

1) Each packet has 8 sweets. Sam bought 4 packets.
How can Sam calculate how many sweets he bought?

How many sweets did Sam buy? _____

2) Sally placed pencils into 3 groups. She placed 6 pencils in each group.

Draw a picture to show what Sally did.

How many pencils did Sally place altogether? _____

solving simple addition problems

Jill has 4 cards.



How many more does she need to have 10? _____

Sam has 5 pencils in one hand and 7 in the other.

How many pencils is Sam holding altogether? _____

There are 10 birds in a tree. Then 6 fly away.

Circle the one that shows how many birds left in the tree?

$10 + 6$

$10 - 6$

$6 + 6$

$10 - 4$

Joe has 7 marbles. Sue has double Joe's number.

How many marbles does Sue have? _____

Mary scored 6 goals on Saturday and 9 goals on Sunday.

How many goals did Mary score on the weekend? _____

Mr Snow has 12 girls and 10 boys in his class.

Mrs Ray has 16 girls and 10 boys in her class.

1) How many children in Mr Snow's class? _____

2) How many more children in Mrs Ray's class? _____

simple addition facts

$10 + 8 = \underline{\quad}$

$22 + 10 = \underline{\quad}$

$7 + 6 = \underline{\quad}$

Double 8 = $\underline{\quad}$

$12 + 8 = \underline{\quad}$

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

 simple subtraction facts

$10 - 7 = \underline{\quad}$

$12 - 5 = \underline{\quad}$

$14 - 6 = \underline{\quad}$

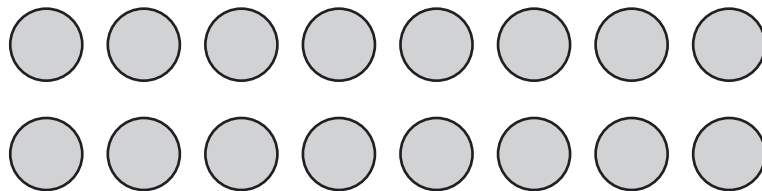
 represent division as grouping into equal sets

Mrs Kim has 15 sweets that she wants to share between her three children.

Draw a picture to show how many sweets each child gets.

There are 16 balls. Share them equally between 4 children.

How many balls will each child get? $\underline{\quad}$

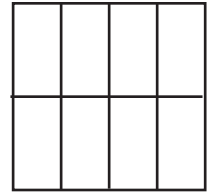
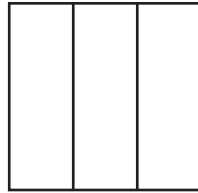
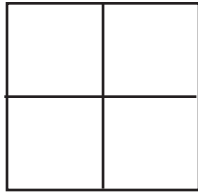
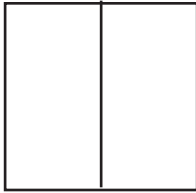
 **advanced problem solving**

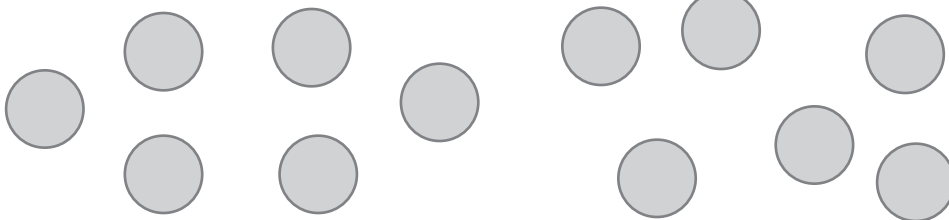
Mrs Penny bought 2 packets each with 6 pens.

If she wants to share them equally between 4 children, how many pens will each child get? $\underline{\quad}$

quarters and eighths

Shown are four pig pens. Which pig pen is divided into quarters?



 Draw to separate the group of objects into quarters.

 fractions

How has this pizza been cut?



- into halves
- into quarters
- into eighths

Mandy ate half the pizza.

How many slices did she have? _____

describing number patterns

Write the rule for each pattern?

10	20	30	40	50	60
----	----	----	----	----	----

40	35	30	25	20	15
----	----	----	----	----	----

12	15	18	21	24	27
----	----	----	----	----	----

 identifying missing elements in number patterns

Add the missing number to complete each pattern.

1)

5	10		20	25	30
---	----	--	----	----	----

2)

4	8	12		20	24
---	---	----	--	----	----

3)

90	80	70	60		40
----	----	----	----	--	----

 solve number problems by using number sentence

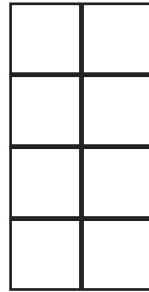
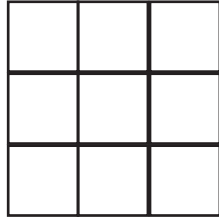
Write a number sentence that could be used to solve each problem.

1) Harry has 9 apples and Julie has 5. How many apples do they have altogether? _____

2) There are 25 apples on a tree. After picking 12 apples, how many apples are left on the tree? _____

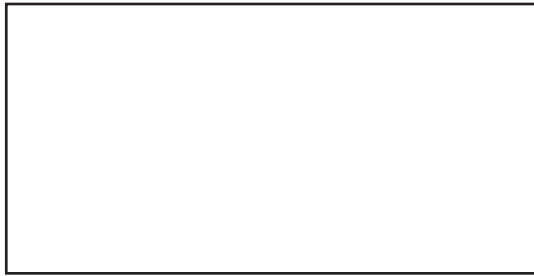
using informal units to measure area

Karen used equal sized squares to measure the area of some shapes. Circle the shape with the greatest area.



What is the area of this shape?

= 1 square unit

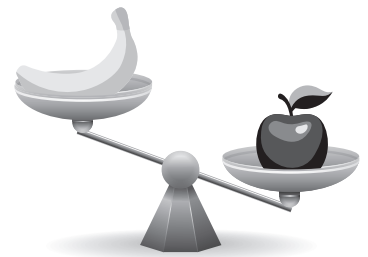
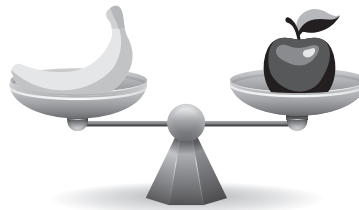


- a) 5 square units
- b) 9 square units
- a) 18 square units
- a) 100 square units

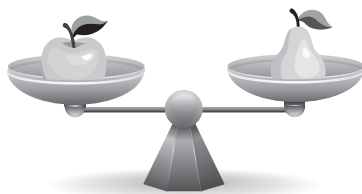
 comparing mass using balance scales

An apple has a greater mass than a banana.

Circle what will happen when they are placed on balance scales?



An apple and a pear are weighed as shown. Which statement is true?



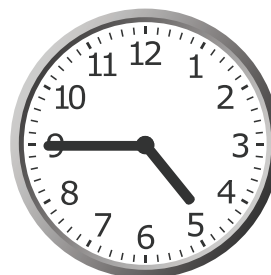
- The apple is heavier than the pear.
- They both weigh the same.
- The pear is heavier than the apple.



telling the time to the quarter-hour

What time is shown on each clock?







features of two-dimensional shapes

1) Which of these shapes has 3 edges and 3 corners?

- square rectangle triangle

2) Which of these shapes has a curved edge and no corners?

- circle rhombus kite



describe and draw two-dimensional shapes

Draw each shape. Write two features about each shape.

square

triangle



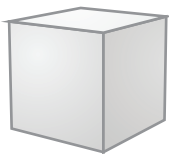
identify the features of three-dimensional objects

Draw a line to match each feature to its shape.

curved faces

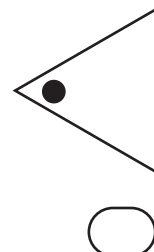
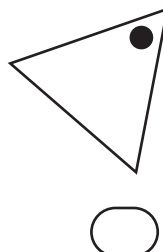
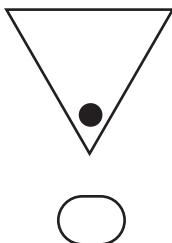
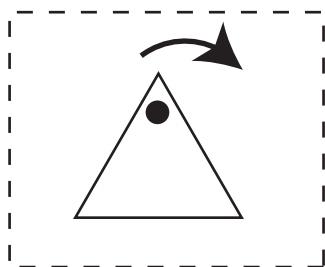
12 straight edges

4 edges meeting at a point

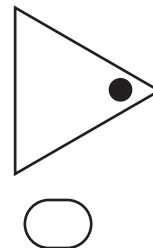
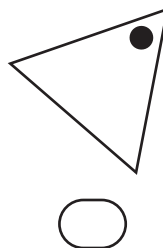
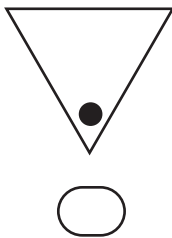
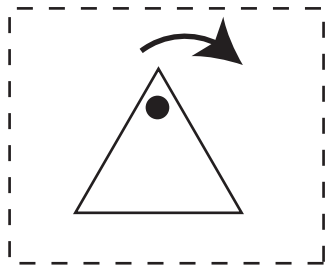


identify and describe half and quarter turns

Which triangle shows the result of a 'half turn'?

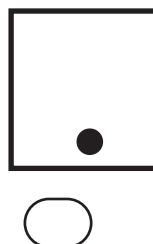
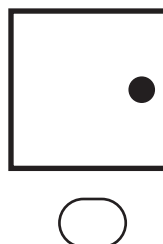
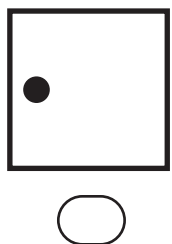
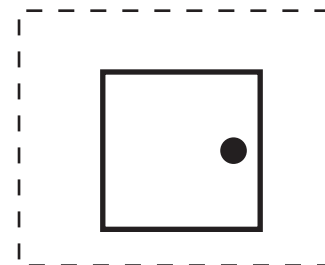


Which triangle shows the result of a 'quarter turn'?



identify the effect of a flip

Which square shows the shape after being 'flipped'?



describe outcomes as 'likely' or 'unlikely'

Identify each activity as being either 'likely' or 'unlikely' to occur.

_____ : You will play tennis at midnight.

_____ : You will have lunch at school.

_____ : Someone you know will speak to you today.

_____ : You will see your teacher juggle five balls today.

_____ : You will drive a car in the next year.

describe outcomes as 'certain' or 'impossible'

Identify each as being either 'certain' or 'impossible'.

_____ : You will blink at least once in the next hour.

_____ : Your friend will fly to the top of a tree.

_____ : The sun will rise in the morning.

_____ : You will have lunch on the moon tomorrow.

_____ : You will eat something within the next week.

interpreting lists

Shown is Jack's shopping list.

6 apples

8 oranges

12 pears

1 loaf of bread

12 bread rolls

10 slices of cheese

a) Which fruit did is Jack buying the most of? _____

b) How many bread rolls is Jack going to buy? _____

c) How many tomatoes is Jack planning on buying? _____

interpreting tables

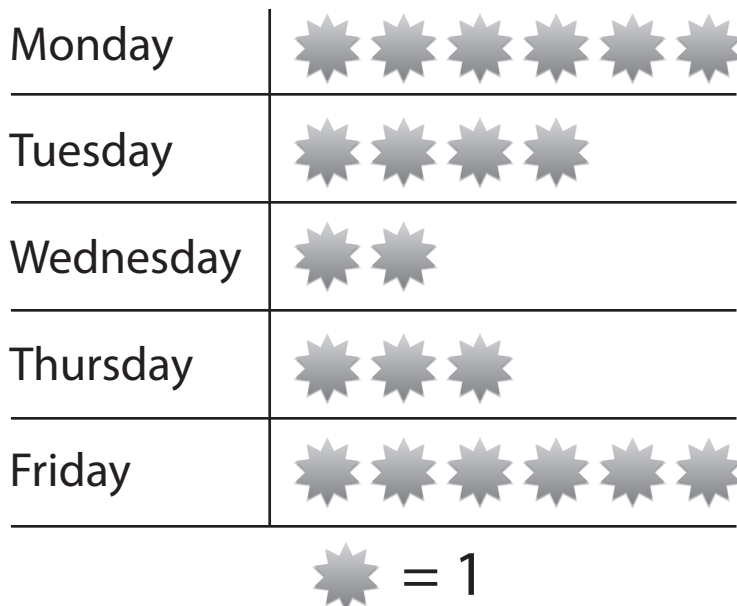
The table shows the number of gold stars earned by all students in one week.

DAY	NUMBER
Monday	35
Tuesday	27
Wednesday	53
Thursday	24
Friday	97
Saturday	0
Sunday	0

- a) How many stars were earned on Wednesday? _____
- b) How many more stars were earned on Tuesday than Thursday? _____
- c) Why weren't any stars earned on Saturday and Sunday?

interpreting picture graphs

Stars Sally earned in one week.



- a) On which day did Sally earn four stars?

- b) How many stars did Sally earn on Friday? _____
- c) On which day did Sally earn the least number of stars?
