Large Numbers

comparing and ordering large numbers

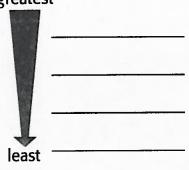
Put the numbers in the place-value chart. Then put them in order.

473 684, 297 693, 486 784, 468 732

Thousands		Hundreds	Tens	Ones		
Hundreds	Tens	Ones	nulluleus	16119	Oue2	
	<u> </u>	<u> </u>	 			
				-		
			+		-	
	•					

greatest

column, and so on.



Comparing Numbers

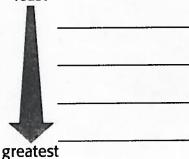
Compare the digits in the hundred thousands column first. The number with the greatest digit is the greatest.

If the digits are the same, compare the digits in the ten thousands

940 685, 946 085, 496 805, 468 095

Thousands			Hundreds	Tens	Ones	
Hundreds	Tens	Ones	nulluleus	16112	Uiles	

least



Put the numbers in order.

386 524, 836 254, 368 254, 863 425 3.

greatest to least: _____

700 603, 760 003, 706 030, 607 030 4.

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least to greatest: _____

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N	a	ш	ıc	• •

Date:

Large Numbers

writing large numbers in different forms with the help of a place-value chart

Complete the place-value chart. Then write the numbers in different forms.

- A 453 942
- **B** 600 281
- **©** 301 065
- **D** 420 009

Thousands		Hundreds	Tone	Onco		
Hundreds	Tens	Ones	nunurus	Tens	Ones	
4	5	3	9	4	2	
					all is 1/4	

- A 4 hundred thousands 5 ten thousands 3 thousands 9 hundreds 4 tens 2 ones
 - 400 000 + 50 000 + _____
 - four hundred _____
- B

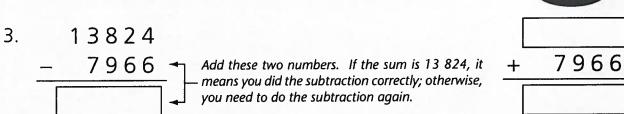
Addition and Subtraction

adding and subtracting whole numbers

Round each number to the nearest hundred to estimate each sum. Then find the exact answer.

Check

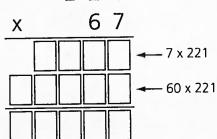
Subtract. Then use addition to check the answers.



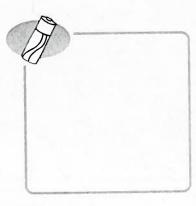
Multiplication

multiplying 3-digit numbers by 2-digit numbers

Do the multiplication. Then solve the problem.



Each box contains 255 batteries. How many batteries do 16 boxes hold in all?



Estimate to check whether each product is "reasonable" or "unreasonable".

7.
$$649 \times 52 = 23748$$
 (

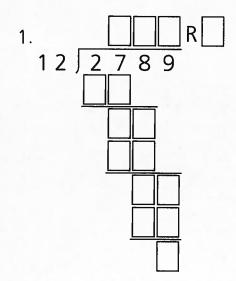
8.
$$324 \times 67 = 21708$$
 (

9.
$$162 \times 89 = 14418$$
 ()

Division

dividing 4-digit numbers by 2-digit numbers

Do the division. Then check the answers.



Steps to Check Answers

1st quotient x divisor

2nd answer from 1st + remainder

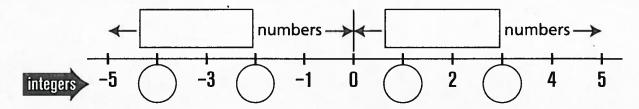
If the answer got in 2nd is the same as the dividend, it means you did the division correctly; otherwise, you need to do the division again.

Integers

using integers to describe different situations

Write the missing integers. Then write "positive" or "negative" in the boxes and fill in the blanks.

1.



- 2. _____ numbers are always shown with a minus sign (–). They are to the _____ (left / right) of 0 on a horizontal number line.
- 3. _____ numbers may or may not be shown with a plus sign (+). They are to the _____ (left / right) of 0 on a horizontal number line.

Write an integer to describe each situation.

4. Judy's dog gained 2 kg this year.

5. Leon has saved \$15 this month.

6. The temperature is 30°C below 0°C.

.

7. The basketball team lost 4 points.

Write a situation that describes the given integer.

- 8. +10 cm
- 9. -3 L
- 10. -\$12

Percent

relating fractions, decimals, and percents and finding a percent of a number

Write each as a fraction, a decimal, or a percent.

1.
$$\frac{45}{100}$$

4.
$$\frac{9}{100}$$

Find the amounts. Show your work.

- Finding a Percent of a Number -

Way 1: using equivalent fractions

20% of 50
Think: 20% =
$$\frac{x \cdot 5}{100} = \frac{x \cdot 5}{10} = \frac{x \cdot 5}{50}$$



We may use either way to find the amounts.

Way 2: using multiplication

20% of 50
Think: 20% =
$$\frac{100}{100} = \frac{50}{50}$$

$$\frac{1}{10}$$
 of $50 = \frac{50}{10} =$

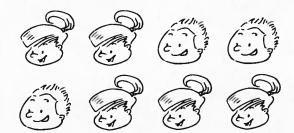
$$\frac{2}{10}$$
 of 50 = 2 x ____ = ___

Ratio

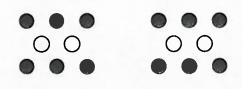
comparing figures using ratio

Look at each group of pictures. Write the ratios.

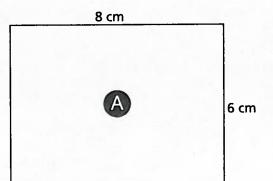
1.



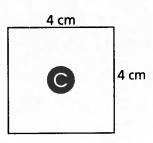
2.



3.



3 cm В 2 cm



- Perimeter of A: Perimeter of B = _____ a.
- Perimeter of A: Perimeter of C = _____ b.
- Area of **B**: Area of **C** = _____
- Area of **C**: Area of **A** = _____

Order of Operations

following the order of operations to solve expressions

Follow the order of operations to find the answers. Circle the parts to be done first.

Solving an Expression

- 1st Do the operations in brackets.
- 2nd Do "x" or "÷" in order from left to right.
- 3rd Do "+" or "-" in order from left to right.

Do "x" first.
e.g.
$$16 - 2 \times 3$$

= $16 - 6$

= 10

Do the part inside the brackets first.

e.g.
$$(16 - 2) \times 3$$
 $= 14 \times 3$
 $= 42$

1.
$$34 - (12 \div 3)$$

2.
$$9 + 5 \times 2$$

3.
$$(2 + 3) \times 6$$

4.
$$18 + 6 \div 2$$

5.
$$5 \times 6 \div 3$$

6.
$$9 \times (8 - 3)$$

7.
$$52 + 6 \times 7 =$$

8.
$$26 - 14 \div 2 =$$

Add brackets to make each number sentence true.

9.
$$36 + 3 \div 3 = 13$$

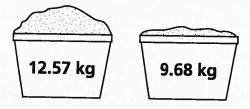
10.
$$7 \times 2 + 1 = 21$$

Adding and Subtracting Decimals

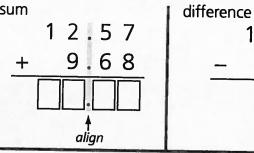
adding and subtracting decimals to hundredths

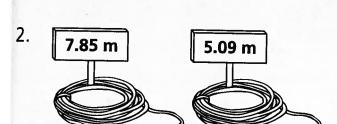
Find the sums and differences.

1.



sum





sum

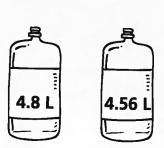
difference

12.57

align

9.68

3.



sum

difference

Find the answers.

$$3. \quad 10.61 - 4.5 =$$

$$5. \quad 3.46 - 0.88 =$$

Decimals

comparing, ordering, and rounding decimals

Put the decimals in order from greatest to least.

— Comparing Decimals ·

Compare the whole number parts first. The one with the greatest whole number is the greatest. If they are the same, compare the digits in the tenths column. The one with the greatest digit is the greatest, and so on.

e.g. Compare 25.63, 53.63, and 25.49.

53 is the greatest, so 53.63 is the greatest.

6>4, so 25.63 is greater.

greatest to least: <u>53.63, 25.63, 25.49</u>

Round each decimal to the nearest tenth.

Multiplying and Dividing Decimals

multiplying and dividing decimals with whole numbers

Do the multiplication and division.

2.
$$4.56 \times 7 =$$

3.
$$12.5 \times 9 =$$

$$5. \quad 0.8 \times 24 =$$

6.
$$13.71 \times 8 =$$

8.
$$57.06 \div 9 =$$

Solve the problems.



Patterns in Multiplication

using patterns to do multiplication

Use mental math to multiply.

- Multiplying in a Smart Way -

Multiply: 22 x 7 x 5



Think
$$22 \times 5 \times 7 \leftarrow Rearrange$$
.

$$= 110 \times 7$$

place first.

Multiply: 26 x 49

Think

$$26 \times 50 = 1300$$

$$1300 - 26 = 1274$$

So,
$$26 \times 49 = 1274$$

4.
$$150 \times 7 \times 4 =$$

6.
$$21 \times 5 \times 6 =$$

7.
$$39 \times 8 \times 5 =$$

Fractions

exploring equivalent fractions and relating fractions to decimals

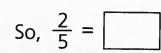
Colour the correct number of parts to find an equivalent fraction and write it on the line. Then write the fraction as a decimal in the boxes.

1.



.

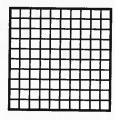




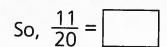
2.



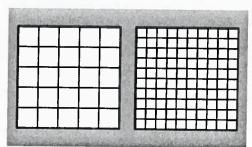
 $\frac{11}{20}$







Write an equivalent fraction with a denominator of 10 or 100 for each fraction. Then write it as a decimal. The diagrams on the right might help.



3.
$$\frac{3}{5} =$$

4.
$$\frac{9}{20} =$$

5.
$$\frac{1}{4}$$
 = ____ = ___

6.
$$\frac{1}{2} =$$

7.
$$\frac{4}{5} =$$

8.
$$\frac{17}{50} =$$

Worksheet

Mixed / Improper Fractions

F-10 C (con't)

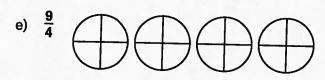
3. Shade one piece at a time until you have shaded the amount of pie given in bold. There may be more pies than you need:



b) $\frac{7}{2}$



d) 13/4



 $\frac{3}{2}$



h) 15/4

4. Draw these <u>improper</u> fractions: HINT: Draw one pie at a time and colour in the pieces. Keep drawing pies and shading pieces until you have shaded the correct amount of pie.

<u>5</u>2

<u>9</u>

7 4

<u>9</u>

<u>5</u>

<u>11</u> 8

Name:				

Date:

Prime and Composite Numbers

identifying numbers as prime or composite numbers

Fill in the blanks. List out all the factors of each number. Then tell whether it is a prime or composite number.

Prime Number: a number with only _____ factors (1 and itself) The factors of 5: 1 and 5

So, 5 is a prime number.

Composite Number: a number with more than ____ factors e.g. The factors of 4: 1, 2, and 4 So, 4 is a composite number.

The factors of 42:

3. The factors of 20:

42 : a _____ number

20 : a _____ number

The factors of 19.

The factors of 9. 5.

19 : a ______ number

Write the numbers

2 prime numbers that are between 15 and 20

2 composite numbers that are greater than 20 7.

a prime number that is an even number 8.

Common Multiple

finding the common multiples of a set of numbers

Mark the multiples of the numbers. Then fill in the blanks.

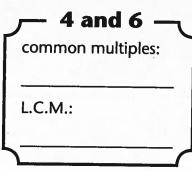
1.	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30

- 2. common multiples of 2 and 3: ______(the numbers marked "()")
- 3. the least common multiple of 2 and 3: _____

List the first 6 multiples of each pair of numbers. Then find their common multiples and the least common multiple (L.C.M.).

4. **4**:
$$\frac{1 \times 4}{1 \times 4}$$
, $\frac{2 \times 4}{2 \times 4}$, $\frac{3 \times 4}{3 \times 4}$, $\frac{4 \times 4}{4 \times 4}$, $\frac{5 \times 4}{6 \times 4}$

6:
$$\frac{1 \times 6}{1 \times 6}$$
, $\frac{2 \times 6}{2 \times 6}$, $\frac{3 \times 6}{3 \times 6}$, $\frac{4 \times 6}{4 \times 6}$, $\frac{5 \times 6}{6 \times 6}$



10:
$$\frac{1 \times 10}{1 \times 10}$$
, $\frac{2 \times 10}{2 \times 10}$, $\frac{3 \times 10}{3 \times 10}$, $\frac{4 \times 10}{5 \times 10}$, $\frac{5 \times 10}{6 \times 10}$

common multiples:
L.C.M.:

matching the number patterns with the pattern rules, finding the next two terms, and writing pattern rules for Input/Output machines

Match the pattern rules with the number patterns. Write the letters. Then find the next 2 terms.

- 6, 18, 42, 90, _____, 1.
- 5, 9, 21, 57, _____, ____ 2.
- 3. 2, 5, 11, 23, _____, ____
- 4. 52, 98, 190, 374, _____,
- 5. 128, 192, 288, 432, _____, ____

- $A \times 2, +1$
- $B + 3, \times 2$
- -2, x3
- D 3, x 2
- \bullet 2, x 3

Find the outputs. Write the pattern rules for the input and the output. Then find the 10th input and output.

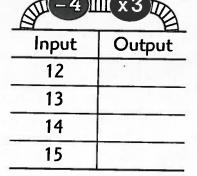
6.

X 2 1	III + 3 I
Input	Output
5	
7	
9	
11	

Pattern rule

- input:
- output: ______

The 10th: ___ output 7.



Pattern rule

- input: _____
- output: ______

The 10th: _ output

Solve Problems Using Patterns

solving problems using patterns

Follow the patterns to find the correct number of marbles in the boxes. Write the pattern rules. Then answer the questions.

1. Joe puts 8 marbles in box 1; 13 in box 2; 23 in box 3; and 43 in box 4.

Вох	No. of Marbles
1	8
2	13
3	23
4	43
5	
6	
7	

- 2. Pattern rule:
- 3. How many marbles are there in box 9?

4. Sue has 386 marbles in box 1; 194 in box 2; 98 in box 3; and 50 in box 4.

Вох	No. of Marbles
1	
2	
3	
4	
5	
6	
7	

5. Pattern rule:

6. Which box contains 5 marbles?

Solve Problems Using Patterns

identifying patterns in problems and writing pattern rules to do prediction

Look at the poster. Complete the table and answer the questions.

- 1. No. of orders No. of chicken wings Cost (\$)
 - 2 3
 - 4 5 6

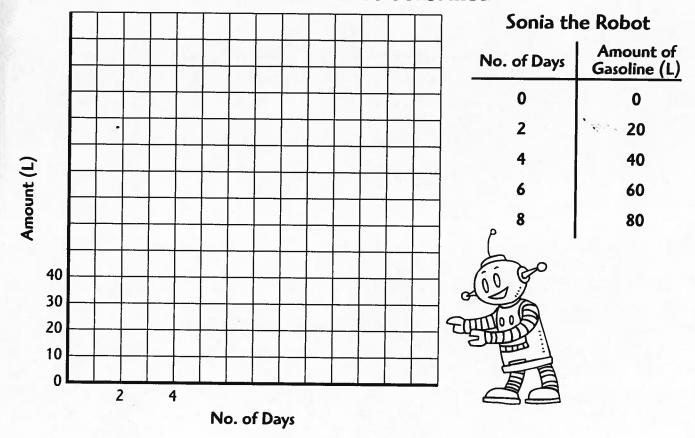


- 2. Write a pattern rule for the number of chicken wings.
- 3. Write a pattern rule for the cost.
- How many chicken wings are there in 4.
 - 10 orders? a.
 - b. 13 orders?
- 5. How many orders of chicken wings can you buy
 - with \$24?
 - b. with \$52?

using graphs to show patterns

Complete the line graph to show the data in the table. Then answer the questions.

1. Amount of Gasoline Sonia the Robot Consumed



- 2. Write the pattern rule for the amount of gasoline consumed.
- How much gasoline does Sonia consume in 11 days?
 (Hint: Extend the line on the graph.)
- 4. Predict the number of days Sonia can operate if it takes in 140 L of gasoline. Explain.

finding numbers, terms, or operations for Input/Output machines

Complete the table for each Input/Output machine. Then write the pattern rule for each group of terms.

1.

Input	Output
3	9
4	12
5	
6	

The pattern rule for input numbers:

The pattern rule for output numbers:

2.

Input	Output
1254	1244
1154	
1054	
954	

The pattern rule for input numbers:

The pattern rule for output numbers:

Find the operation in each machine. Then continue the pattern.

Input	Output
150	210
170	230

4.	Input	Output
	425	85
	450	90
		to a state of the

finding pattern rules and terms of number patterns

Match the pattern rules with the correct number patterns.

900, 850, 750, 600, 400

4, 2, 7, 5, 10, 8, 15

100, 50, 60, 30, 40, 20

D 4, 9, 7, 12, 10, 15, 13

900, 850, 800, 750, 700

- 100, 150, 210, 280, 360
- Start at 4. Alternately add 5, then subtract 2. 1. Start at 100. Add 50. Increase the number you add by 10 each time. Start at 900. Subtract 50 each time.

Start at 100. Alternately divide by 2, then add 10.

Write the pattern rule. Then find the next 2 terms.

16, 34, 29, 47, 42, 60, _____, ____ 2.

Pattern rule:

3. 3, 6, 12, 24, 48, 96, _____,

Pattern rule:

Equations

using symbols or letters to represent unknown quantities and finding missing numbers in equations

Put a check mark in the box if it is an equation.

- 1. A
- A 3+9-4
 - В
 - B y + 1 = 3
 - C
 - $C \implies x = 16$
 - D
 - D ▲+♥-3
 - Е
- $5 \times 9 = 45$

-Equations

An equation is a mathematical statement showing two equal expressions.

e.g.
$$3 + 2 = 5$$

$$x - 1 = 2$$

Find the missing number in each equation.

- 2. $\triangle + 3 = 5$
 - **A** = ____
- 4. \bigcirc x 2 = 8
 - **W** = _____
- 6. 5 + b = 12
 - b = ____
- 8. $3 \times m = 6$
 - m = ____

- 3. 12 = 4
- - = _____
- 7. 8-a = 1
 - a = _____
- 9. $10 \div n = 2$
 - n = ____

Angles

naming and constructing angles using a protractor

Name each angle. Then measure it with a protractor.

- Naming Angles

Acute Angle (angle < 90°)

Right Angle (angle = 90°)

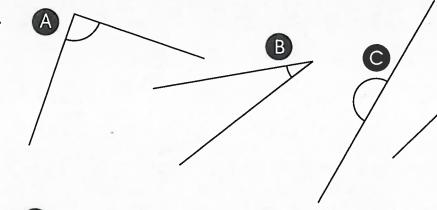
(angle = 9

Obtuse Angle (90° < angle < 180°

(90° < angle < 180°)

Straight Angle (angle = 180°)

1.



A

©____

;____

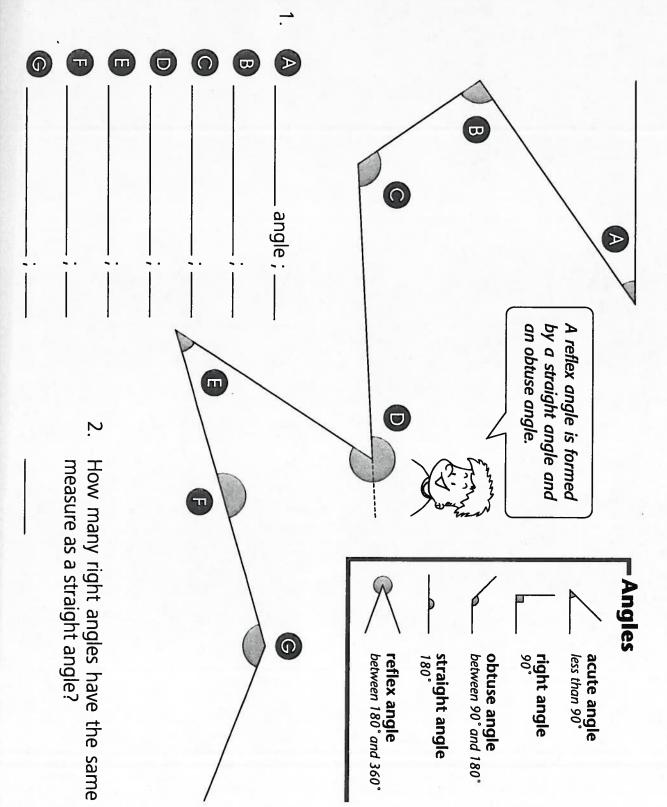
B

Draw lines to join the dots. Then measure and record the size of each angle.

2.

3.

Name each angle. Measure and record the size of it. Then answer the question.



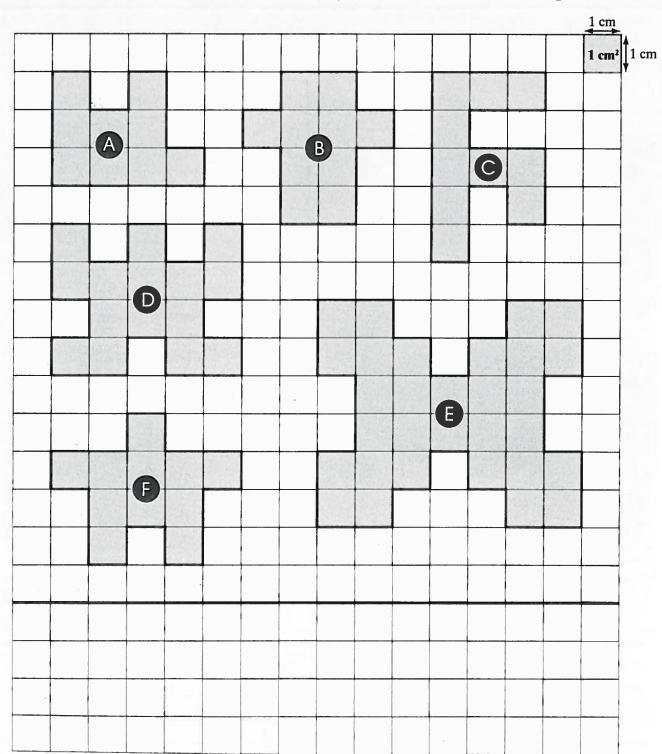
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Perimeter and Area

finding perimeters and areas of irregular polygons using grids

Find perimeters and areas of each polygon. Then answer the questions.

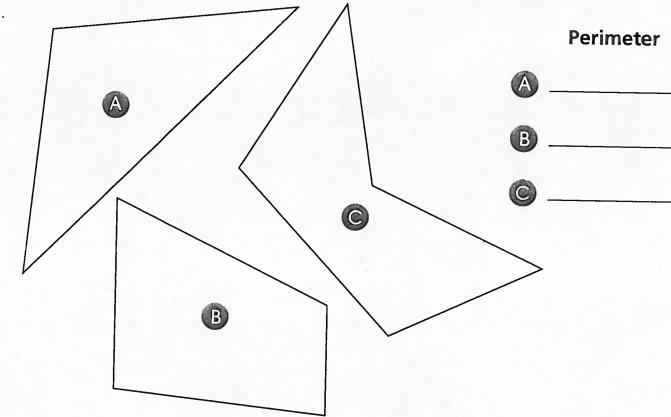


Perimeter

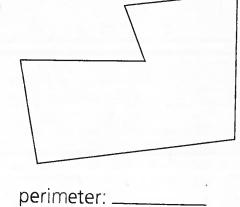
measuring perimeters of polygons

Measure and record the sides of each polygon. Then find its perimeter.

1.



Find the perimeters of the polygons.



- 3. a regular pentagon with 4.6 mm sides perimeter: _____
- 4. a rhombus with 3.5 dm sides perimeter: _____

1.	A Perimeter:	B Perimeter:
	Area:	Area:
	Perimeter:	Perimeter:
	Area:	Area:
	Perimeter:	Perimeter:
	Area:	Area:
2.	Which figure has the greatest period	meter?
3.	Which figure has the least area?	
4.	If B is cut into two equal parts, w	hat will the new perimeter and area be?
5.	If Kevin moves (F) 2 squares up to what will the perimeter and area o	combine with D to form a new figure, f the new figure be?
6.	Draw the following figures on the	grid.
	• G : a figure with a perimeter of	10 cm
	• H : a figure with an area of 12 c	rm²

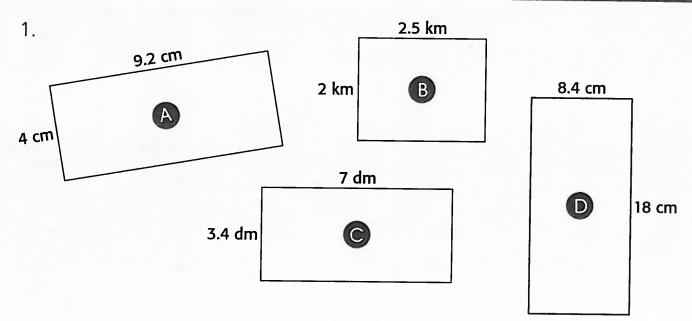
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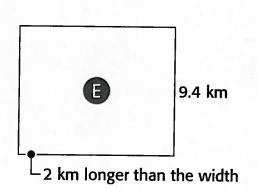
Area

finding areas of rectangles using a formula

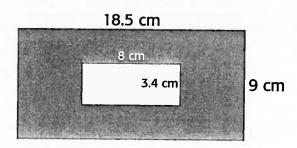
Find the areas of the rectangles.

Area of a Rectangle = length x width length width





Find the area of the shaded part. Show your work.



Volume

finding volumes of solids made with centimetre cubes

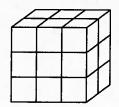
Find the volume of a centimetre cube. Then find the volume of each solid made with centimetre cubes.

1.

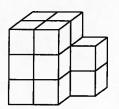


The volume of a centimetre cube is _____ cm³.

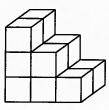
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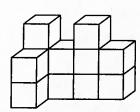
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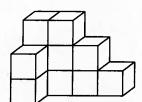
4.



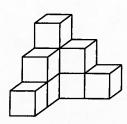
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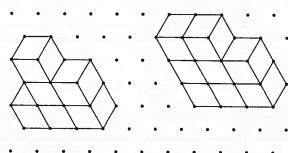
6.

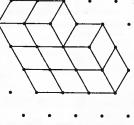


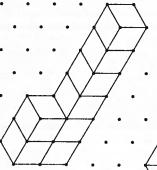
7.

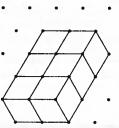


Colour each pair of solids that have the same volume using the same colour.









Similar Figures

identifying similar figures

Fill in the blanks to complete the sentences. Then colour the similar figures with the same colour.

1. Any 2 figures are similar if

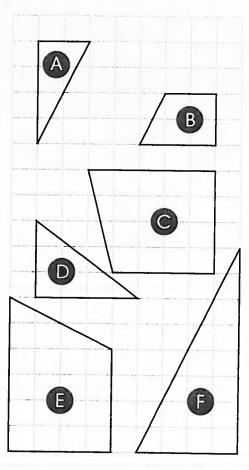
• their corresponding angles are _______equal / not equal

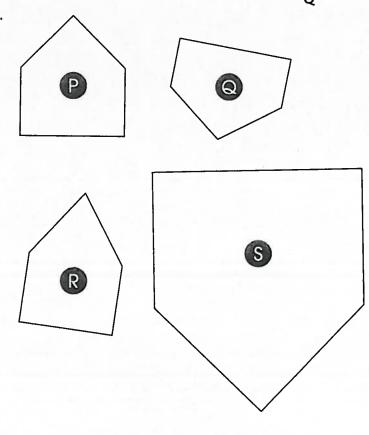
 \bullet each side length of one figure multiplied by the same number is $\frac{}{\text{equal / not equal}}$ to the corresponding side length of the other figure.

So, △ABC is ______ to △PQR.

3.6 cm
34°
3 cm
34°
3 cm
34°
4 cm
6 cm

2.





Congruent Figures

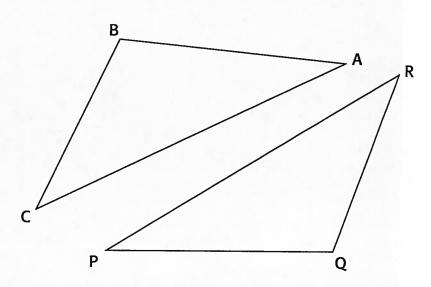
identifying and finding congruent figures

Measure and record the angles and sides of each triangle. Then fill in the blanks.

Congruent Figures

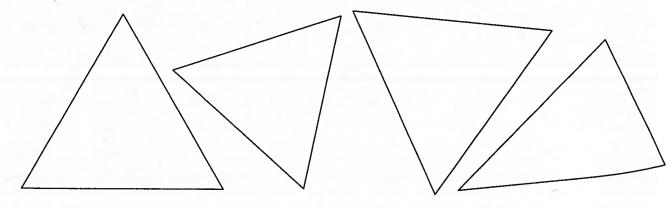
Any 2 figures are congruent if they have the same shape and their corresponding sides and angles are equal.

1. Angle —



The corresponding angles and sides of these two triangles are the same, so they are ______ figures.

Measure and label the angles and sides of each triangle. Then colour the congruent triangles with the same colour.



Triangles

classifying triangles by their sides and angles

Complete the classification table. Then measure and record the sides and angles of each triangle. Name it in two ways.

1. — Classification of Triangles

By sides:

/	\
1	+

equilateral triangle

___ sides equal



isosceles triangle

_ sides equal



scalene triangle

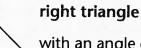
___ sides equal

By angles:



acute triangle

all angles less than ____



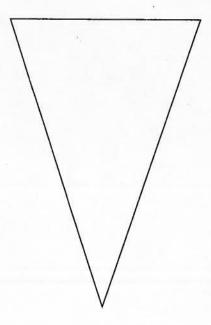
with an angle of _____

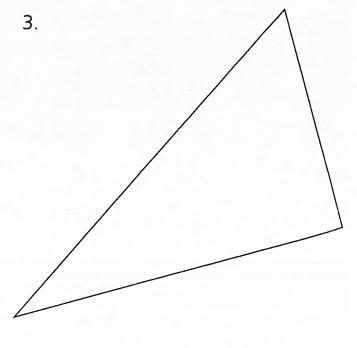


obtuse triangle

with an angle greater than _

2.





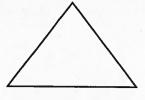
Quick Math Assessments

Polygons

naming polygons in different ways

Write the number of sides of each polygon. Then name the polygon and draw another polygon of the same kind next to it.

1.



_____ sides

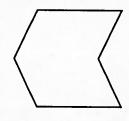
2



______ sides

name

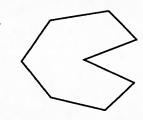
3.



_____ sides

name

4.



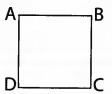
sides

name

name

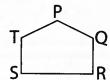
Name the polygons by their vertices. Then name their sides.

5.



Quadrilateral A ___ D

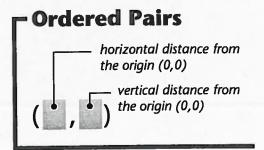
Sides: AB, _____

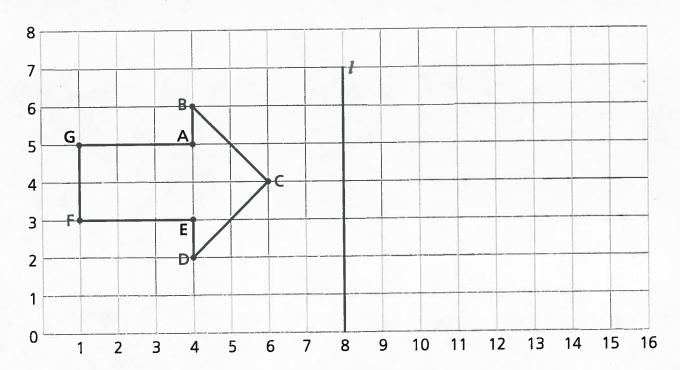


Coordinates

locating and plotting points on a coordinate grid

Locate and plot the points on the grid. Then answer the questions.





4	_			_1:			
ı		$\mathbf{O}($	זכ	αı	n	at	es

A (____, ____)

R

D _____

E _____

F _____

G _____

 Reflect the arrow over the line *l*. Draw the image on the grid. Then label the vertices from P to V and write their coordinates.

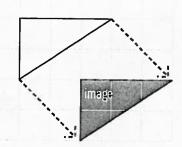
Move the image of the arrow 1 unit up and 2 units left. Rotate a ¹/₄ turn clockwise about (8,5). Name it Y. Then circle the vertices of Y located on the horizontal line if there are any.

Transformations

identifying different kinds of transformations - translation, reflection, and rotation

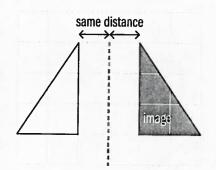
Trace the dotted lines. Fill in the missing letters to identify each transformation.

1. T __ an __ _ at __ on



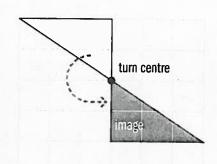
 Slide the figure along a straight line.

 $R _f _ ct _ on$



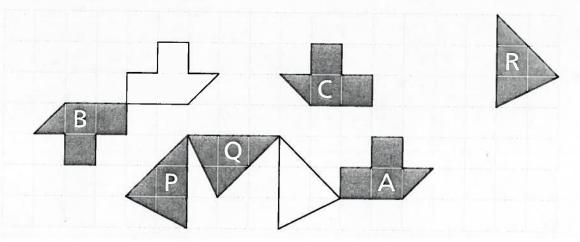
Flip the figure over a line.

Ro __ a __ io __



Turn the figure about the turn centre.

Identify each transformation.



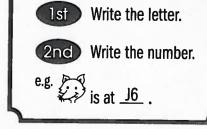
- 2.
 - a. image A: ______
 - b. image B: _____
 - c. image C: _____
- Move the \bigcirc to each image. 3. Move the \bigcirc to each image.
 - a. image P: _____
 - b. image Q: _____
 - c. image R: _____

Location of Objects

writing coordinates of objects on a coordinate system

Complete the grid. Find the coordinates or locate the objects on the grid.

1.



Writing Coordinates •

										e.g.	is	at <u>J6</u>
												L
6												
								2				
4						۸Д						
			(4R	VI					
2												
1												
	Α	В	С	E	F			I	J			M

- Coordinates of the animals:

 - c. 😭 _____
 - d. \iint _____

How many squares are taken up by the farm? What are the coordinates of the farm?

_____ squares ; _____

Which animal is closest to the farm?

Circle Graph

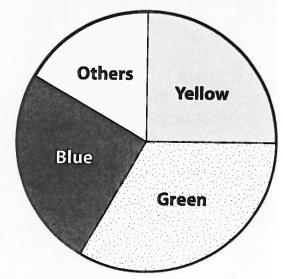
reading circle graphs to solve problems

Measure the angles to complete the table. Then answer the questions.

1.

Colour	Angle of Measure	Fraction		
Yellow				
Green				
Blue				
Others				

Children's Favourite Colours



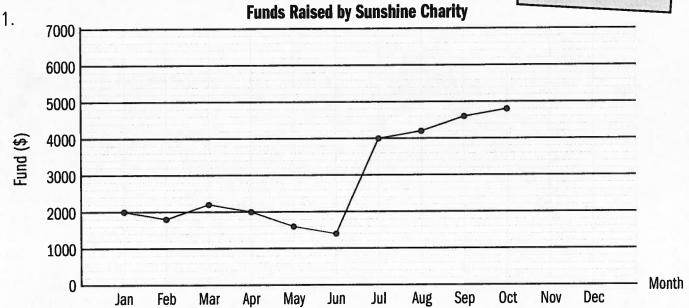
- Which is the most popular colour?
- What fraction of the children like yellow or blue? 3.
- Give an example of colour that can be included in 4. the "Others" section.
- 5. If 60 children are surveyed, how many children like green? (Think: What number is one third of 60?)
- If 100 children are surveyed, how many children like blue?

Line Graphs

interpreting a line graph

Complete the graph that shows the funds raised by Sunshine Charity. Then answer the questions.





2.	Month	Funds Raised
	Jan	\$2000
	Feb	
	Mar	
	Apr	
	May	
	Jun	
	Jul	
	Aug	
	Sep	
	Oct	
	Nov	
	Dec	

3. Find the range, mean, mode, and median of the funds raised.

range: _____ mean: ____

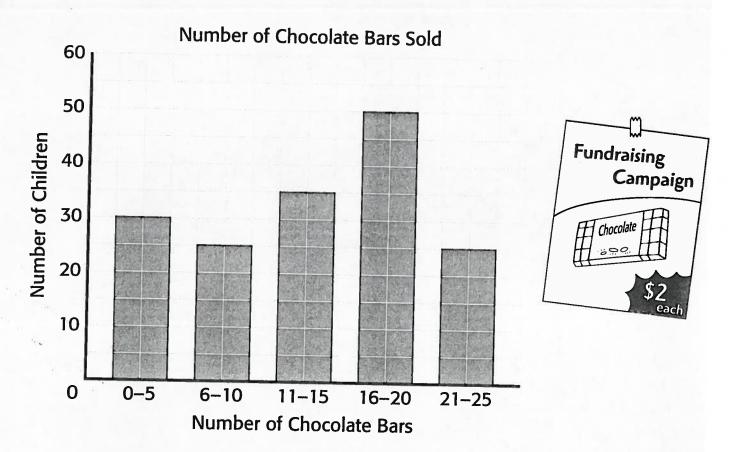
mode: _____ median: ____

4. Sunshine Charity adopted a new way to promote a campaign. When did they adopt the new way? Explain.

Interpret Survey Results

interpreting survey results presented in a bar graph

Look at the bar graph. Complete the table and answer the questions.



4		
1.	No. of Chocolate Bars Sold	No. of Children
	0 – 5	
	6 – 10	
	11 – 15	
	16 – 20	
	21 – 25	

2. What might the survey question have been?

3. How many children sold 16 or more chocolate bars?

Probability

showing the probabilities of events using fractions

Find the probability of each event.

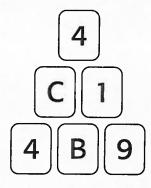
The probability of an event
$$=$$
 $\frac{\text{no. of times of a particular event}}{\text{total no. of possible outcomes}}$



e.g. 2 out of 5 cards are "A".

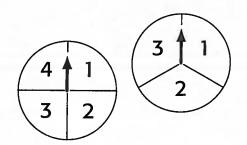
The probability of drawing "A" =
$$\frac{2}{5}$$

- 1. Draw a card.
 - a. Number of possible outcomes = _____
 - b. The probability of drawing
 - a number card = ____ out of $6 = \frac{1}{6}$
 - a letter card = _____ =



- 2. Spin each pointer once and multiply the numbers that the pointers land on.
 - a. Complete the table to list all the possible outcomes.

Х	1	2	3	4
1				
2				
3				



- b. The probability of getting a product of 4 = _____
- c. The probability of getting a product that is an even number = _____

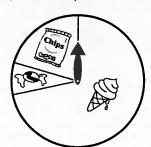
Probability

finding the likelihood of events

Describe each event with the given words. Then draw pictures to match the descriptions.

certain likely unlikely impossible

- 1. You will see a mouse flying in the sky tomorrow.
- 2. You will see stars tonight.
- 3. There will be a newcomer in your class next week.
- 4. Andy has a bag of marbles; most marbles are yellow. If Andy draws a marble from the bag, it will be yellow.
- 5. Spin the pointer once. The pointer will land on

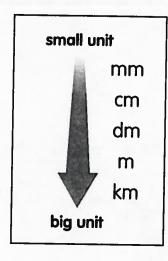


- a. the "ice cream":
- b. the "candy":
- c. the "cookie":
- d. the "chips":
- 6. Draw 12 balls in the box and colour to match the descriptions.
 - It is likely to pick a green ball.
 - It is impossible to pick a red ball.
 - It is unlikely to pick a yellow ball.

Length

finding appropriate units to do measurements and doing unit conversions

Use an appropriate unit to do each measurement.



- the length of your thumb
- the length of your desk
- 3. the thickness of a coin
- the length of a highway
- the height of a building

Write each measurement using the given units.

— Converting Units —

Relationships

1 km = 1000 m

1 m = 10 dm

 $1 \, dm = 10 \, cm$

 $1 \, \text{m} = 100 \, \text{cm}$

1 cm = 10 mm

Big Unit \xrightarrow{X} Small Unit

x 1000 $3.6 \, \text{km} = 3600 \, \text{m}$

$$0.4 \text{ m} = 40$$

Small Unit → Big Unit

84 cm = 0.84 m

6.



km

7.

9.





dm

12.3 cm

_ cm

Mean, Median, Mode, and Range

interpreting data using mean, median, mode, and range

Do the matching. Then find the mean, median, mode, and range of each set of data.

- 1.
- mean
- median •
- mode •
- range •

- the number that occurs most often in the data
- the difference between the highest and lowest numbers in a set of data
- the middle value in a set of values arranged in order (If there is an even number of numbers, this middle value is the average of the two middle numbers.)
- the average of a set of numbers
- 2. Weights of 12 children:

35 kg 18 kg 26 kg 32 kg

14 kg 30 kg 18 kg 32 kg

34 kg 32 kg 24 kg 29 kg

mean median

Put the data in order from least to greatest.

mode range

3. Andy's Weekly Earnings:

\$5 \$4.75 \$4 \$6 \$3 \$2

\$0 \$1.25 \$1 \$2 \$1 \$0

mean median

Put the data in order from least to greatest.

·_____

mode range

If the mean number of chocolate bars sold by each child is 14, how much would be raised in this activity?
Check the statements that describe the graph correctly. Then write a statement with what you have found out from the graph.
Twice as many children sold 16–20 chocolate bars as those who sold 21–25 chocolate bars.
There are 25 children who sold 25 chocolate bars.
Half of the children surveyed are girls.
The number of children who sold who 6–10 chocolate bars is the same as that of those who sold 21–25 chocolate bars.
All the children surveyed are from Grade 1 to Grade 6, but most of them are from Grade 6 and are boys. Do you think this sample group is biased? If it is, give a suggestion to make an appropriate sample group.

.

. _ _

Word Problems

solving multi-step problems with different operations

solve the problems. Show your work and write concluding sentences.

1. Bob has \$20. If he spends 2 toonies, 3 loonies, 4 quarters, 6 nickels, and 7 pennies on his lunch, how much will he have left?

Money spent	Amount
2 toonies	\$4
3 loonies	

Total: _____ in all

Money left:

He will have _____

2. Jenny divides Monarch Trail into 3 sections. The first section is 572 m long and the length of the second section is half of the first section. How long is the last section?

Monarch Trail