

Printable Reading Passages

Printables - Reading Passages Simple Machines



What Are Force, Motion, and Work?



What Are Simple Machines?



Levers



Wheel & Axles and Pulleys



Inclined Planes, Wedges, and Screws



Compound Machines



Gains and Losses with Simple Machines

Reading Passage



Global Warming: Effects Sea Level Changes

A change in Earth's climate causes changes in sea level. When the climate becomes warmer, sea level rises. The rise in sea level has two causes.

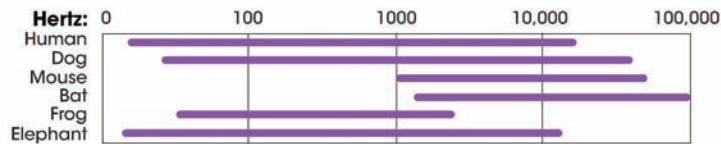


When water heats up, it **expands**. In other words, warmer water takes up more space than cooler water. The difference is small; you wouldn't notice the water in a glass expanding as it warms. However, because the amount of water in the oceans is so great, even a small change in temperature can expand the surface water enough to cause a measurable rise in sea levels.

Sea levels also rise due to the addition of [continue reading](#)

Interactive Activity

Ranges of Hearing



20-20,000 Hz



(label)



(label)

16-12,000 Hz

40-60,000 Hz



(label)



50-4,000 Hz



(label)

1,000-70,000 Hz

2,000-120,000 Hz



Timeline

The Growth Cycle of a Fetus Timeline

- 4 Weeks / 1 Month
- 9 Weeks / 2 Months
- 12 Weeks / 3 Months
- 16 Weeks / 4 Months
- 20 Weeks / 5 Months
- 24 Weeks / 6 Months
- 28 Weeks / 7 Months
- 32 Weeks / 8 Months
- 38 Weeks / 9 Months



28 Weeks / 7 Months: The fetus weighs about 3 pounds (1.5 kg) and is more than 15 inches (38 cm) long. The fetus can now open and close their eyes and has the ability to follow a light. The brain and nervous system begin to develop more rapidly.



Before You Read

Before You Read

Global Warming: Causes
Greenhouse Gases: Ozone

1 2

Earth's Atmospheric Layers
Label the diagram below by dragging the words from the list.

ozone layer troposphere stratosphere

Reset

Reading Passage

Reading Passage

Cells, Skeletal & Muscular Systems
Cell Structures and Functions

Cell Part	Where Is It?	What It Does	Job in the Factory
Cell Membrane	Surrounds the cell	- Separates the inside of the cell from its environment - Some elements are let in, some are kept out	- The factory wall or fence

STOP

What is the OUTSIDE part of a cell and why is it important?

(press here for answer)

Interactive Activity

Carbon Neutral Home

INTERACTIVE HOUSE
Power and data distributed around the house to allow wired & wireless internet everywhere, using easily accessed routes under the floor

Reset

Extension Activity: Memory Match

Kinds of Force Memory Match Game

Friction	Air Resistance	Contact Force	Gravity	Magnetic Force	Electrostatic Force
?	?		?	?	?
?	?	?	Air Resistance	?	?
	?	Electrostatic Force	?	?	?

Mix Reset ?

Vocabulary Flash Cards

Reading Passage **The Nervous System – Spinal Cord and Nerves** Senses, Nervous & Respiratory Systems


Vocabulary - touch the card to reveal the definition

Spinal Cord	Vertebrae Any of the bones or segments that create the spinal column
Neurons A specialized cell that is the functional unit of the nervous system	Motor Nerves
Sensory Nerves	Senses

Reading Passage

Reading Passage **Vibrating Motion** Motion

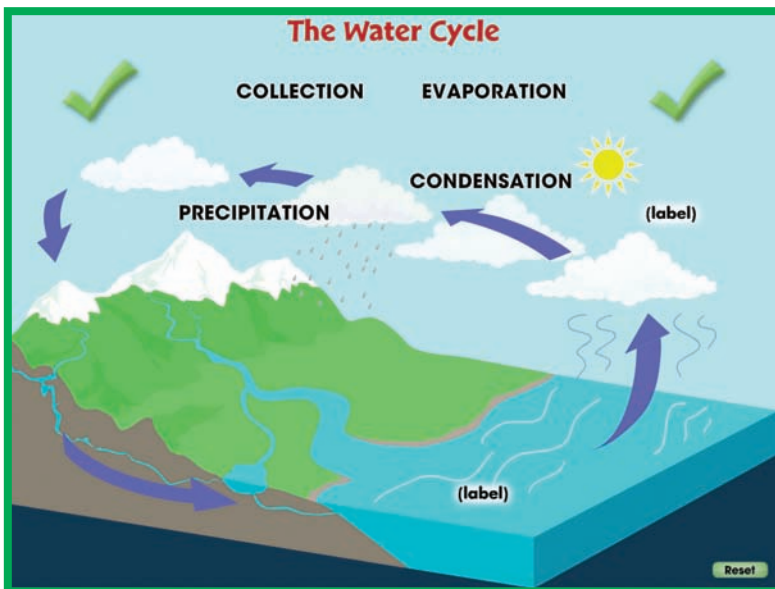
The pictures to the right show four things that move with a vibrating motion, arranged from most pleasant to most unpleasant. When something vibrates it moves back and forth or up and down.



We can see the jackhammer and woodpecker's head moving back and forth. The motion of the guitar strings and humming bird's wings are so fast we just see a blur.

The speed of the vibration is called the **frequency**. Frequency tells how often (how frequently) the thin **continue reading**

Interactive Activity



Extension Activity: Crossword

Crossword Reset ?

Word List

- colon
- esophagus
- lungs
- pores
- small intestine
- white

Across / Down

12. This is removed from waste in the large intestine.

15. This organ is coiled like a snake. (2 words)

17. The main job of the liver is to _____ blood.

18. Small holes in our skin that sweat comes out of.

After You Read

After You Read Force

Other Forces That Act Without Touching

1 2 3 4 5

Drag the correct symbol to complete the magnetic force graphics below.

WELL DONE!

a)

b)

Reset

Reading Passage

Reading Passage Senses, Nervous & Respiratory Systems


The Nervous System – Spinal Cord and Nerves

Why is our spinal cord inside our vertebrae?

For protection.

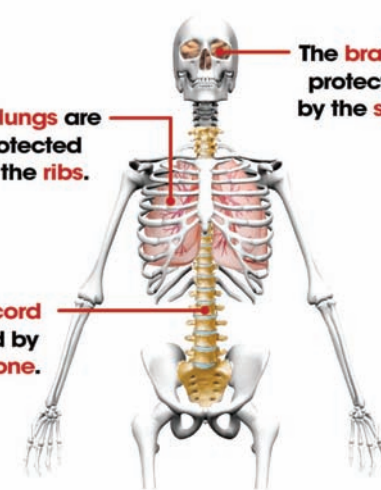
The Nerves

Nerve cells (also called **neurons**) have the job of carrying messages. They carry messages to and from the brain through the spinal cord to every part of the body. Nerve cells are connected to our spinal cord and each other. They have tiny ends, like threads, so they can reach everywhere in our body.



Interactive Activity

Bones and Organ Protection



The brain is protected by the skull.

The lungs are protected by the ribs.

The spinal cord is protected by the back bone.

Reset

Extension Activity: Word Search

Word Search

Using a pen from the tray, circle the hidden words in the puzzle.

B	W	H	E	E	L	C	D	T	F	S	E
G	A	N	H	C	R	J	R	K	E	C	N
K	T	O	L	M	N	E	N	P	N	R	E
R	T	I	E	L	X	A	W	A	A	E	R
O	Q	T	R	E	S	R	T	O	L	W	G
W	F	O	R	C	E	S	T	S	P	V	Y
E	W	M	X	V	I	Y	Z	I	I	B	E
D	C	D	E	S	F	R	V	G	H	D	L
G	J	L	E	K	N	O	T	W	E	N	L
E	L	R	M	E	T	E	R	E	M	N	U
P	Q	R	F	U	L	C	R	U	M	S	P

axle
distance
energy
exert
force
fulcrum
lever
meter
metric
motion
newton
pivot
plane
power
pulley
resistance
screw
watt
wedge
wheel
work

Pre-Assessment

Pre-Assessment | Number & Operations
Counting & Ordering Objects

Count the number of objects in each group.

4 frogs = 4

3 shells = 3

6 cherries = 6

WELL DONE!

Reset

Practice The Skill

Practice the Skill | Number & Operations
Fractions

What fraction is shaded?

3/4 = 0.75

3/6

1 2 3 4 5 6 7 8 9 0

Reset

Extension Activity: Board Game

Number & Operations Board Game

TEAM A

What fraction of the following shapes are triangles?

a) $\frac{2}{8}$

b) $\frac{3}{8}$

c) $\frac{3}{6}$

3 triangles, 2 squares, 3 circles

START

TEAM A

TEAM B

Mix Reset ?

Extension Activity: Spinner Game

Number & Operations Spinner Game

00:13 %

What is the place value of the following underlined digit:
2,805


a) tens


b) ones


c) hundreds

Mix Reset ?

Learn The Skill

Learn the Skill  Algebra
Ordering & Grouping

ES Put the following pictures  in order from smallest to largest.



A **B** **C** **D**


SMALLEST **B** **D** **C** LARGEST


Touch for Solution

A


Reset


Practice The Skill

Practice the Skill  Algebra
Number Sentences & Fact Families

ES Are the following number sentences true or false? 

$9 + 3 + 3 = 6 + 1 + 7$


TRUE FALSE 



Reset

Extension Activity: Memory Match

Algebra Memory Match Game

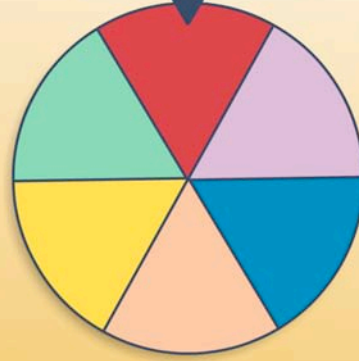
?	2_4	?	
ABB	<	?	?

Mix Reset ?

Extension Activity: Spinner Game

Algebra Spinner Game

00:37 $\frac{3}{6}$




What number is missing in the following number chart?


12		14	15	16
----	--	----	----	----

a) 11
b) 13
c) 10

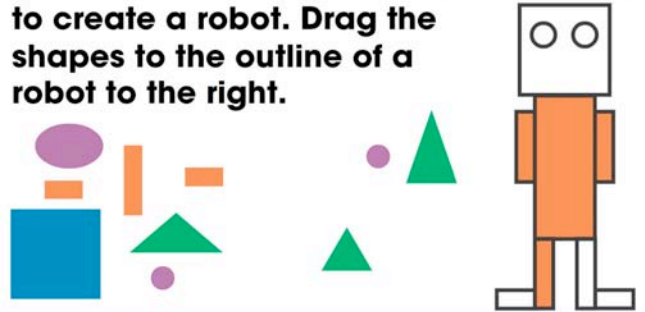
Mix Reset ?

Learn The Skill

Learn the Skill  **Geometry**
Composing Geometric Shapes

ES 


Use the provided shapes to create a robot. Drag the shapes to the outline of a robot to the right.




Touch for Solution


Reset

Practice The Skill

Practice the Skill  **Geometry**
Spatial Relationships

ES 

Find the animal or figure in the following locations.



4/6



Which animal comes before the turtle?

fish cat lizard

Reset

Extension Activity: Memory Match

Geometry Memory Match Game

?	?	?	
	?	before	symmetrical

Mix Reset ?


Extension Activity: Board Game


Geometry Board Game

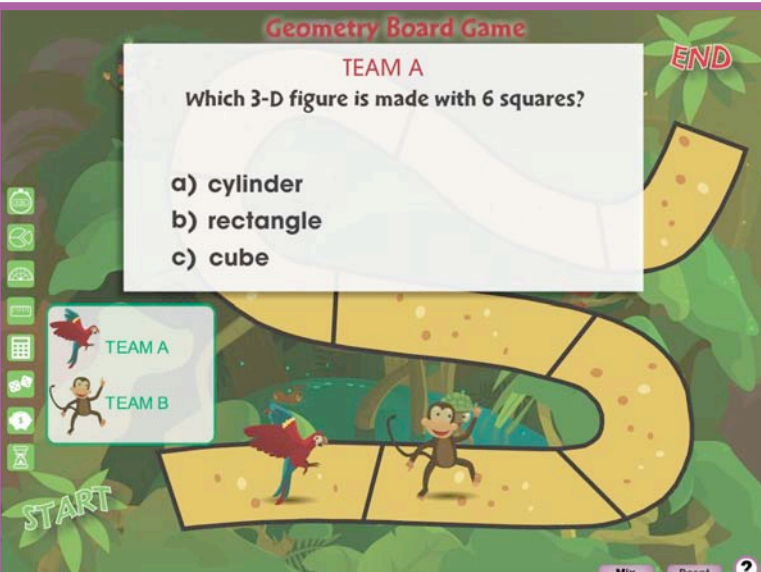
TEAM A

Which 3-D figure is made with 6 squares?

a) cylinder
b) rectangle
c) cube

TEAM A 

TEAM B 


START  **END**



Mix Reset ?


Pre-Assessment

Pre-Assessment Measurement Temperature & Currency

ES How much money is pictured below? 1 2

a)  \$0.25 \$0.35 \$0.30

b)  \$  ? 5

c)  \$0.25 \$0.27 \$0.22


Reset

Teach The Skill

Teach The Skill Measurement Area & Volume

ES **Volume** is a way to measure how much a container can hold. If you want to know how much juice a glass can hold, you need to find the volume. A glass, a tablespoon, and a pitcher of orange juice are shown below. See how many tablespoons of orange juice will fill the glass.


0 tablespoons

touch → 

Reset

Extension Activity: Memory Match

Measurement Memory Match Game

	cold	?	?
?	32°F (0°C) =	?	3:30

Mix Reset ?

Extension Activity: Spinner Game

Measurement Spinner Game

00:28 $\frac{3}{6}$

A rectangle has a side length of 6 units and a side width of 2 units. What is the area of the rectangle?

a) 16 square units
b) 12 square units
c) 32 square units


Mix Reset ?


Teach The Skill


Teach the Skill Data Analysis & Probability Pictographs

Based on the information recorded in the pictograph, you can then find the probability of another animal being added to the farm. For example:

Animals on a Farm

Chickens  = 2 animals

Pigs 

Sheep 

What is the probability of another sheep being added to the farm?


sheep = $\frac{6}{24}$

(continue) Reset

Practice The Skill

Practice the Skill Data Analysis & Probability Probability

A marble collection is shown below. Answer the following questions.



How many marbles are orange?

1 2 3 4 5 6 7 8 9 0 Reset

Extension Activity: Board Game

Data Analysis & Probability Board Game

TEAM B

There are 2 blue triangles, 3 red squares and 1 green circle. How many shapes are triangles?

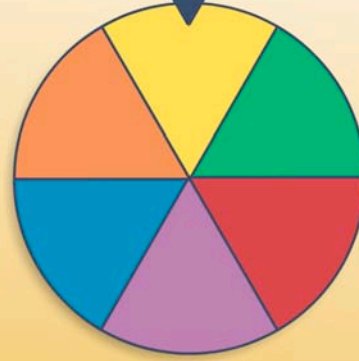
a) 2
b) 3
c) 1

START Mix Reset ?

Extension Activity: Spinner Game

Data Analysis & Probability Spinner Game

00:11 $\frac{0}{6}$



Which color in the circle graph are students less likely to land on?

a) blue
b) red
c) green

Mix Reset ?

Teach The Skill

Teach the Skill Number & Operations
Base-Ten & Place Value

Base-Ten is a number system that is based on the number 10. It is known as the decimal system. The base-ten system uses symbols 0-9 and columns for place value. Base-Ten blocks are a useful tool to help visualize the base-ten number system. They come in units, rods, flats and cubes.

cube = 1000 units (continue)

Reset

Learn The Skill

Learn the Skill Number & Operations
Fractions - Addition & Subtraction

WELL DONE!

whole wheat bread and $\frac{4}{10}$ of white bread. How much more whole wheat bread did Aubrey use?

(touch the image to enlarge)

0.4 = $\frac{4}{10}$

1 0 = $\frac{10}{10}$

1 2 3 4 5
6 7 8 9 0

00.4

2
5

or Solution

1 2 3 4 5 6 7 8 9 0

Reset

Extension Activity: Board Game

Number & Operations Board Game

TEAM A

Add the following base-ten blocks:

a) 4
b) 208
c) 28

START

TEAM A

TEAM B

END

Mix Reset ?

Extension Activity: Memory Match

Number & Operations Memory Match Game


$281.6 =$	$\frac{3}{7} + \frac{1}{7} =$	tens	?
?	?	?	?
?	$\frac{4}{7}$	28 units	


Mix Reset ?


Pre-Assessment


Pre-Assessment Algebra Patterns

How would you show the following pattern using letters?


 ABA AAB ABB


 ABA AAB ABB

c) 
 ABA AAB ABB

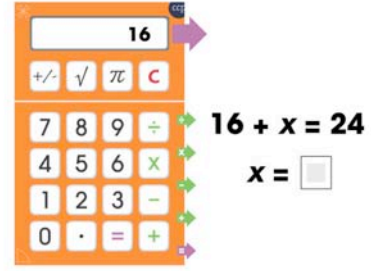
d) 
 ABA AAB ABB

Reset

Learn The Skill

Practice the Skill Algebra Equations - Solving for a Variable

Solve for "x" for the following equations.


 $16 + x = 24$
 $x = 8$

2/10

1 2 3 4 5 6 7 8 9 0

Reset


Extension Activity: Board Game

Algebra Board Game

TEAM A

How would you show the following pattern using letters?

a) ABA
 b) AAB
 c) ABB



TEAM A

TEAM B

START

END

Mix Reset ?

Extension Activity: Spinner Game

Algebra Spinner Game

00:13 $\frac{1}{10}$

Solve for x for the following equation:

$$9x + 3 = 23 - 2$$

a) 2
 b) 6
 c) 3

Mix Reset ?

Teach The Skill

Teach the Skill Geometry Polygons

ES 1 2

Polygons can also be simple or complex.
 A **Simple** Polygon has only one boundary and its line segments do NOT cross each other.
 Touch the simple polygons below.

(continue)

Reset

Practice The Skill

Practice the Skill Geometry Transformations & Symmetry

ES 1 2 3

Identify the following shape transformations as a reflection, translation, rotation, or enlargement.

rotation
 reflection
 translation
enlargement

4/10

00:40

Reset

Extension Activity: Memory Match

Geometry Memory Match Game

?	?		
?	?	?	?
	symmetrical	faces = 6	rotation

Mix Reset ?

Extension Activity: Spinner Game

Geometry Spinner Game

00:30 $\frac{2}{10}$

A 3-D figure has 3 rectangular faces and 2 triangular faces. What figure is it?

a) Triangular Prism
 b) Pyramid
 c) Rectangular Prism

Mix Reset ?

Learn The Skill


Learn the Skill  Measurement Lengths & Weights

1 2 3 4 5 6 7 8




METRIC / IMPERIAL

Practice The Skill

Practice the Skill  Measurement Temperature & Time

ES What times do the following clocks show? 1 2 3



3:00

1 2 3 4 5 6 7 8 9 0

1/10

Reset

Extension Activity: Memory Match

Measurement Memory Match Game

?	?	half past six =	12 inches =
?	1 foot	?	?
?	6:30	?	?

Mix Reset ?

Extension Activity: Board Game

Measurement Board Game

TEAM B

What is the perimeter of a triangle with side lengths of 12 units?

a) 36 units
b) 48 units
c) 72 units

START END

TEAM A TEAM B

Mix Reset ?

Pre-Assessment

Pre-Assessment Data Analysis & Probability
Pictographs & Frequency Tables

ES Answer the following questions based on the pictograph. Books Read = 1 book

Adriana	
Molly	
Evan	
Felipe	

How many books were read in total? **8 book(s)**

How many books did Adriana read? **2 book(s)**

How many books did Felipe read? **1 book(s)**

How many books did Molly and Evan read? **5 book(s)**

WELL DONE!

Reset

Practice The Skill

Practice the Skill Data Analysis & Probability
Probability & Percentages

ES Choose the likelihood of the following scenarios happening.

Rolling the number 4.

CERTAIN / LIKELY / UNLIKELY / IMPOSSIBLE

Reset

Extension Activity: Board Game

Data Analysis & Probability Board Game

TEAM A
What type of graph is shown?

a) pictograph
b) line plot
c) line graph

START END

Reset ?

Extension Activity: Spinner Game

Data Analysis & Probability Spinner Game

00:19 $\frac{1}{10}$

Based on the frequency table, how many students watched between 4 and 5 hours of TV?

hours	frequency
0-1	3
2-3	5
4-5	2
6-7	4

a) 4
b) 2
c) 5

Reset ?

Pre-Assessment

Pre-Assessment Number & Operations
Place Value & Data Sets

Determine the place value of the underlined digit. 1 2

✓ $1\underline{2}3 =$ tens ten thousands

✓ $4,\underline{5}67 =$ thousands hundreds

✓ $345.\underline{7}8 =$ hundredths

✓ $2,781.\underline{0}2\underline{1} =$ thousandths ones
tenths

e) $\underline{9}9,724.281 =$ _____

f) $55.\underline{3}6 =$ _____

Reset


Learn The Skill

Learn the Skill Number & Operations
Rational Numbers

Michael needed 2 pounds 1 2 3 4 5 6 7 8

WELL DONE!

many pounds (kilograms) of apples will Michael have left?



(touch the image to enlarge)

✓ 4.3 pounds

$6.3 \text{ pounds} - 2.0 \text{ pounds} = 4.3 \text{ pounds}$

Imperial 1 2 3 4 5 6 7 8 9 0 Metric

Reset

Extension Activity: Board Game

Number & Operations Board Game

TEAM A
Multiply the following decimals:
 $12,061.10 \times 0.1$

a) 120,611
b) 120.61
c) 1,206.11

START END

Mix Reset ?

Extension Activity: Spinner Game

Number & Operations Spinner Game

00:44 $\frac{4}{15}$

Multiply the following fractions to their simplest form: $\frac{7}{12} \times \frac{2}{4}$

a) $\frac{7}{24}$
b) $\frac{2}{7}$
c) $\frac{1}{2}$

Mix Reset ?

Pre-Assessment

Pre-Assessment Algebra
Graphing Linear Functions

Cite the coordinates for the objects indicated. 1 2

a) $(-2, -4)$

b) $(-10, 3)$

c) $(6, -2)$

d) (\square, \square)

e) $(-\square, \square)$

f) (\square, \square)

1 2 3 4 5 6 7 8 9 0

Reset

Practice The Skill

Practice the Skill Algebra
Linear Equations

Solve the following two-step linear equations. 1 2 3

$t + 3.5 = 2.5 - 2.5$ $t = -\square$

1 2 3 4 5 6 7 8 9 0

Reset

Extension Activity: Memory Match

Algebra Memory Match Game

?	$y = 3$	2	$x = 4$	$2x + 9 = 21 - 4$
$10x + 6$	Simplify: $2(x + 3) - x(1 - 9)$?	?	
?	Since $2 - 4 = -2$, then $-2 + 4 =$?	$y = 4x - 9$, if $x = 3$?
(6,4)	?	?	?	?

Mix Reset ?

Extension Activity: Board Game

Algebra Board Game

TEAM A

What are the coordinates for the point plotted on the grid?

a) (7,3)
b) (3,7)
c) (7,-3)

1 2 3 4 5 6 7 8 9 10

Mix Reset ?

Teach The Skill

Teach the Skill Geometry
Angles & Triangles

The sum of the angles in a **triangle** equals 180° .
To find the missing angle in a triangle, you could measure it using a protractor, or you could subtract the other angles from 180° . Match the missing angles on the right to the triangles on the left.

$180^\circ - 60^\circ - 60^\circ = 60^\circ$

$180^\circ - 70^\circ - 70^\circ = 40^\circ$

$180^\circ - 90^\circ - 35^\circ = 55^\circ$

$180^\circ - 30^\circ - 40^\circ = \underline{\hspace{2cm}}$

105°
110°

Reset

Learn The Skill

Learn the Skill Geometry
Circles

WELL DONE!

What is the radius of the Ferris wheel? **50 feet**

What is the circumference of the Ferris wheel? (Round to the nearest whole number) **314 feet**

radius = diameter \div 2
radius = 100 feet \div 2
radius = 50 feet

circumference = π x diameter
circumference = (3.14) x 100 feet
circumference = 314 feet

1 2 3 4 5 6 7 8 9 0

Reset

Extension Activity: Memory Match

Geometry Memory Match Game

parallel lines	ray	?	?	?
surface area = 150 square units	?			
?	?	?	?	?
?	?	diameter = 6 units		?

Mix **Reset** ?

Extension Activity: Spinner

Geometry Spinner Game

00:29 $\frac{3}{15}$

What types of lines are pictured below?

a) intersecting
b) skew
c) parallel

Mix **Reset** ?

Pre-Assessment

Pre-Assessment Measurement
Temperature & Currency

ES Add a 15% tax to the following currency totals. (Round to the nearest hundredth) 1 2

a) $\$17.00 + 15\%$
= \$ **19.55**

b) $\$7.95 + 15\%$
= \$ **9.14**

c) $\$2.45 + 15\%$
= \$

d) $\$6.99 + \11.99
= \$

e) $\$8.95 + \$13.50 + 15\%$
= \$

f) $\$3.75 + \$9.95 + 15\%$
= \$

1 2 3 4 5 6 7 8 9 0 Reset

Learn The Skill

Learn the Skill Measurement
Perimeter & Area

ES **WELL DONE!** 1 2 3 4 5 6 7 8

82 km). Touch the image on the right to enlarge and measure the sides of the Bermuda Triangle with the ruler tool. Then, find the perimeter in inches (cm) and in miles (kilometers).

a) Perimeter = **22.93** inches


b) Perimeter = **2,980.9** miles

a) perimeter = length + length + length = 22.93 inches
b) 1 inch = 130 miles 22.93 inches x 130 miles
perimeter = 2,980.9 miles

Imperial 1 2 3 4 5 6 7 8 9 0
Metric Reset

Extension Activity: Memory Match

Measurement Memory Match Game

?	32,000 ounces =	41°F =	?	?
circumference = 10.99 units	?	?	?	5°C
2,000 pounds	8,000 meters =	?		8 Kilometers
\$3.75 + \$8.65 - \$2.45 =	?	\$9.95	?	?


Mix Reset ?

Extension Activity: Board Game

Measurement Board Game

TEAM B
What is the diameter of the circle?

a) 4 units
b) 8 units
c) 16 units

8 units 

START END

Mix Reset ?

Teach The Skill

Teach the Skill Data Analysis & Probability
Mean, Median, Mode

Mean, Median and Mode tell you important information about a set of data. The **Range** is the difference between the largest and smallest numbers in a set of data. The **Mean** is the average of a group of numbers. To find the mean, add up all the numbers in a set of data and divide the sum by the amount of numbers in the data set.

3 + 4 + 2 + 4 + 2 ← touch

Reset

Practice The Skill

Practice the Skill Data Analysis & Probability
Scatter Plots, Line Plots & Line Graphs

Determine whether the following scatter plots show a positive, negative or no trend.

Positive
Negative ✓ 1/15
No Trend

00:28

Reset

Extension Activity: Board Game

Data Analysis & Probability Board Game

TEAM B
Using the bar graph, how many students watched comedy movies?

a) 6
b) 5
c) 8

action cartoon horror comedy

START END

Mix Reset ?

Extension Activity: Spinner Game

Data Analysis & Probability Spinner Game

00:35 1/15

Predict whether the following outcome is likely, unlikely, or equal chance:
rolling a number less than 6 on a standard 6-sided die

a) likely
b) unlikely
c) equal chance

Mix Reset ?