

Pre-Algebra Tests and Resources

 $p(n,r) = \frac{n!}{(n-r)!}$

6x+1575x-16

3.141592653

LN

TAN

2nd

Нүр

5+

STO

RLC

a

DRG

SIN

LOG

cos

on/ac

CE/C

Yx

 $2\frac{3}{8}$ <u>5</u> 9 -3 -√5 46.66 -0.0768 π Natural Whole Integer Rational Irrational Real (2) Estimate the sum by rounding to the nearest thousand. 4 points 7987 2903 3997 4176 <u>+</u>2019 [≈] \approx +8885+1102+40093 Estimate each product by rounding to the nearest ten. 4 points 21 x 128≈_____ 67 x 32≈ _____ 58 x 61≈ _____ 52 x 48≈ 4 Solve, using the rules for signed numbers. 14 points (+48) + (+4) =(+99) + (-72) =(+35) - (+71) =(-2) + (+24) =(-3) - (-34) =(-18) - (+82) =(9)(11) =(-6)(40) =(5)(-6) =(10)(13)(-1) =(-9)(4) =(-11)(8)(-1) =(-3)(-20) =(-5)(-12)(-1) =**(5)** Solve, using the rules of absolute values. **10** points |-2| + |-75| = |97| - |93| = |-3| + |56| = -|-21|-|-18| =|75| - |-9| = |8+2|+|23-6| =-|12| + |-4| =-|16-2|+|6-9| =-|79| - |-1| =-|27+3|-|61-9| =

Identify each number as natural, whole, integer, rational, irrational, or real.

Some numbers may have more than one answer.

Horizons Pre-Algebra, Tests and Resources

9

Test 1

24 points

2 points

15 Solve.	
$10^5 =$	$0.483 imes 10^{-1} =$
$(10^2)(10^7) =$	$69.15 \times 10^{-2} =$
$(10^{18}) \div (10^{11}) =$	$54.19 \div 10^0 =$
$10^{-3} =$	$3.45 \div 10^3 =$
$67.1 \times 10^2 =$	$0.32 \div 10^{-1} =$
$0.038 \times 10^3 =$	$0.04 \div 10^{-2} =$

16 Write an equation and solve.

At Billy's concession stand, a cheeseburger with potato chips costs 4 times as much as a candy-filled sucker and 2 pieces of bubble gum. If a candy-filled sucker costs 25 cents and bubble gum costs 5 cents each, how much does Billy charge for a cheeseburger with potato chips?

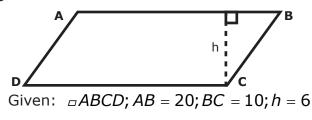
D Multiply or divide	the appropriate powers of 2	10 to complete the metric	conversions.	8 points
0.3 km =	m	0.25 m =	mm	
6.7 kL =	L	6.5 L =	cL	
1794 L =	kL	6791 mL =	L	
32.8 W =	kW	826 cm =	m	
18 Solve the numera	tors to make equivalent fra	ctions.		4 points
3	2	9	5	
$\frac{1}{8} = \frac{1}{24}$	$\frac{2}{5} = \frac{1}{20}$	$\frac{10}{10} = \frac{10}{90}$	$\frac{5}{6} = \frac{1}{24}$	
Complete the frace	tion-decimal equivalents.			8 points
$\frac{1}{2} =$	$\frac{1}{6} =$	$\frac{3}{4} =$	$\frac{2}{5} =$	
2	6	4	5	
	_			
0.25 =	$0.\overline{6} =$	0.625 =	0.4 =	
20 Add, subtract, mi	Iltiply, or divide as indicated	i.		4 points
$\frac{2}{3} + \frac{1}{4} =$		$\frac{4}{5} \times \frac{15}{16} =$		
3 4		5 16		
7 2		37		
$\frac{7}{10} - \frac{2}{3} =$		$\frac{3}{5} \div \frac{7}{10} =$		

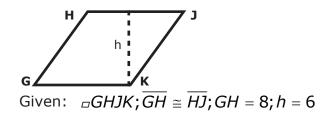
Perimeter and Area of Parallelograms

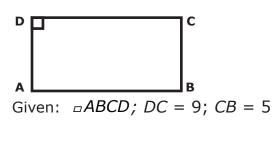
① Complete the chart.

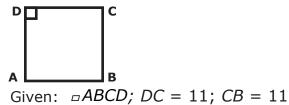
Figure	Drawing	Symbol
	● ^H	
Line <i>TV</i>		
		RT
Ray WX		
	P	
		<i>т</i> <i>п</i>

2 Find the perimeter and area of each figure.



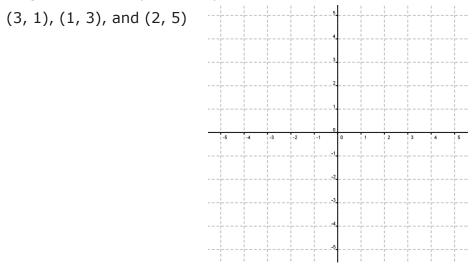






Flips, Turns, Slides

1 Plot the given points in blue and join them to form a polygon. Graph the flip over the x-axis in green and the flip over the y-axis in red.



Plot the given points in blue and join them to form a polygon. Graph the turn 90° clockwise in green and the turn 90° counterclockwise in red

(3, 1), (1, 3), and (2, 5)	 	 	 	 - 	5.			- 	 	 	-
			 		4			I I I I I		 	 -
					2						
					1						
					0			1		1	
	-5	-4	-3	-2	-1	0	1	2	3	4	5
	 -5	-4	-3	-2	-1		1	2	3	4 	5
	 -5	-4		-2	1		1	2	3	4 	5
	 -5 	-4		-2	-1			2	3		5
	 -5 				-1		1	2	3		5

3 Plot the given points in blue and join them to form a polygon. Graph the slide down 4 units in green and the slide left 2 units in red.

(3, 1), (1, 3), and (2, 5)

Formula Strips

For use in Lesson 71

English length equivalents:

1 mile = 5280 feet 1 mile = 1760 yards 1 yard = 3 feet 1 yard = 36 inches

English-Metric length equivalents: 1 inch = 2.54 cm 1 inch = 25.4 mm

1 inch = 25.4 mm 1 yard = 0.91 meter 1 mile = 1.61 km

Metric-English length equivalents:

1 cm = 0.39 inch 1 meter = 1.09 yards 1 km = 0.62 mile

For use in Lesson 74

English length equivalents:

1 mile = 5280 feet 1 mile = 1760 yards 1 yard = 3 feet 1 yard = 36 inches

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Metric-English length equivalents:

1 cm = 0.39 inch 1 meter = 1.09 yards 1 km = 0.62 mile

For use on Exam 2

English length equivalents:

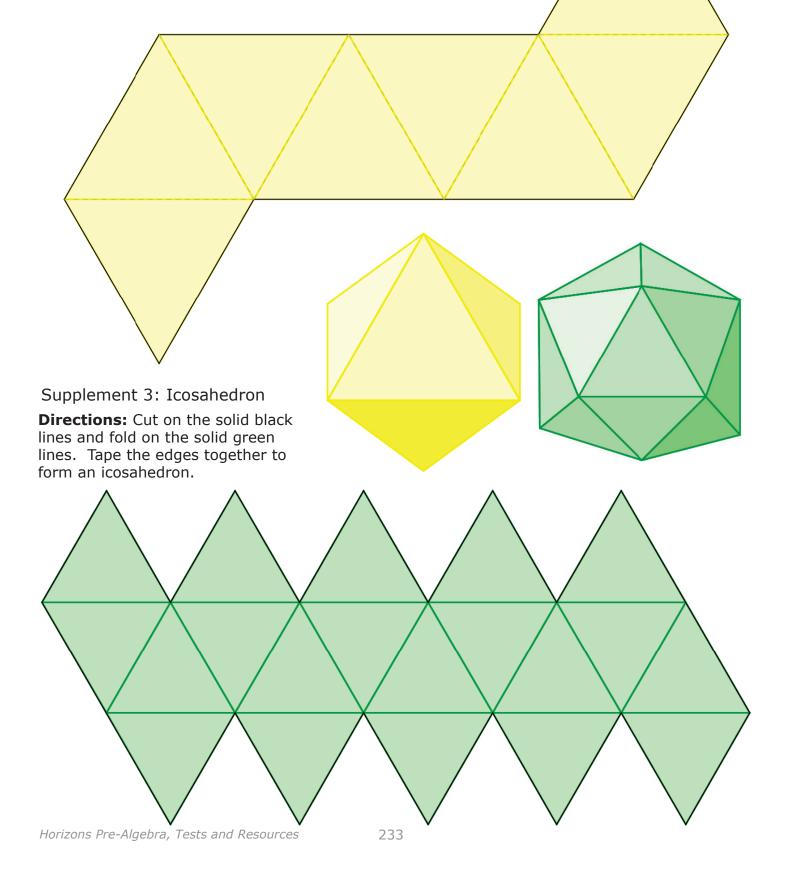
1 mile = 5280 feet 1 mile = 1760 yards 1 yard = 3 feet 1 yard = 36 inches **English-Metric length** equivalents: 1 inch = 2.54 cm

1 inch = 25.4 mm 1 yard = 25.4 mm 1 yard = 0.91 meter1 mile = 1.61 km

Metric-English length equivalents:

1 cm = 0.39 inch 1 meter = 1.09 yards 1 km = 0.62 mile Supplement 1: Octahedron

Directions: Cut on the solid black lines and fold on the dotted lines. Tape the edges together to form an octahedron.



1 1	1	1	1	1	1	1	1	1	1	1	1	1
		x						x				1
		x						X				1
		x						x				1
		x						x				1
												1
												1
												1
		X ²						X ²				1
												1
												1
												1
												1
		X ²						X ²				1
												1
												1
												1