Do Now:

1. Write down the perimeter and area formulas for a square and a rectangle.

	Perimeter	Area
Square	$P = 4 \cdot s$	$A = s^2$
Rectangle	$P = 2l + 2w$	$A = l \cdot w$

2. Explain the difference between area and perimeter.

Sep 15-10:30 AM

(11) Side length = 18 in.

$w + w + l + l$

$18 + 18 + 18 + 18$

72 in

$A = w \cdot l$

$A = 18 \cdot 18$

$A = 324 \text{ in}^2$

Sep 18-9:20 AM

1.6 Variables in Familiar Formulas

(continued)

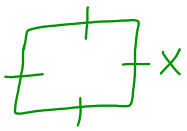
7.NS.1
7.EE

- SWBAT use formulas to find unknown values.
- SWBAT apply proper formulas to find measures.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: No

Sep 15-2:27 PM

Find the side length of a square with perimeter of 28 feet.



$P = 28$

$P = 4 \cdot s$

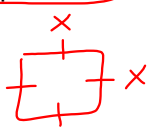
$\frac{28}{4} = \frac{4 \cdot x}{4}$

$7 \text{ ft} = x$

7 ft

Sep 17-10:32 AM

Find the side length of a square with an area of 81 square feet.



$A = 81 \text{ ft}^2$

$l = 9 \text{ ft}$

$w = 9 \text{ ft}$

$A = l \cdot w$

$81 = x \cdot x$

$\sqrt{81} = \sqrt{x^2}$

$9 = x$

9 ft

Sep 17-10:32 AM

Distance Formula

$d = r * t$

distance = rate • time

(speed)

Sep 15-10:29 AM

A bicycle is moving at a rate of 10 feet per second. How far does the bicycle travel in 60 seconds?

$d = ?$
$r = 10$
$t = 60$

$d = r \cdot t$
$d = 10 \cdot 60$
$d = 600$ ft

Sep 15-10:30 AM

A rabbit is traveling at a rate of 26.3 feet per second. How far does the rabbit travel in 5 seconds?

$d = r \cdot t$
$d = 26.3(5)$
$d = 131.5$
$R = 26.3$
$T = 5$
$d = 131.5$ ft

263
× 5
1315

Sep 15-10:30 AM

How long will it take a porcupine to travel 264 feet at a rate of 22 feet per second?

$d = 264$
$r = 22$
$t = ?$

$d = r \cdot t$
$\frac{264}{22} = \frac{22 \cdot t}{22}$
$12 = t$
12 seconds

Sep 15-10:30 AM

Exit Pass 1.6

Tiffany could travel 48 miles (d) in 2 hours (t).

(a) What was her speed? ($r = ?$)

(b) How long would it take her to travel 192 miles (d)? ($t = ?$ use)

(c) At the same speed, how far could she travel in 10 hours (t)? ($d = ?$ use)

Sep 15-10:32 AM

"Perfect practice makes perfect."

Working individually or with a partner, complete the classwork.

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Reflection of Today's Lesson

1.5 Equations and Solutions
7.EE
SWBAT write and solve equations using mental math. ✓
SWBAT represent and analyze situations using algebraic symbols. ✓

1.6 Variables in Familiar Formulas
7.NS.1
7.G.1
SWBAT use formulas to find unknown values. ✓
SWBAT apply proper formulas to find measures. ✓
SWBAT represent and analyze situations using algebraic symbols. ✓

Sep 17-10:34 AM

Homework

- Finish the classwork (pg. 36 #14-20)
- Test on Tuesday!

Sep 15-10:31 AM