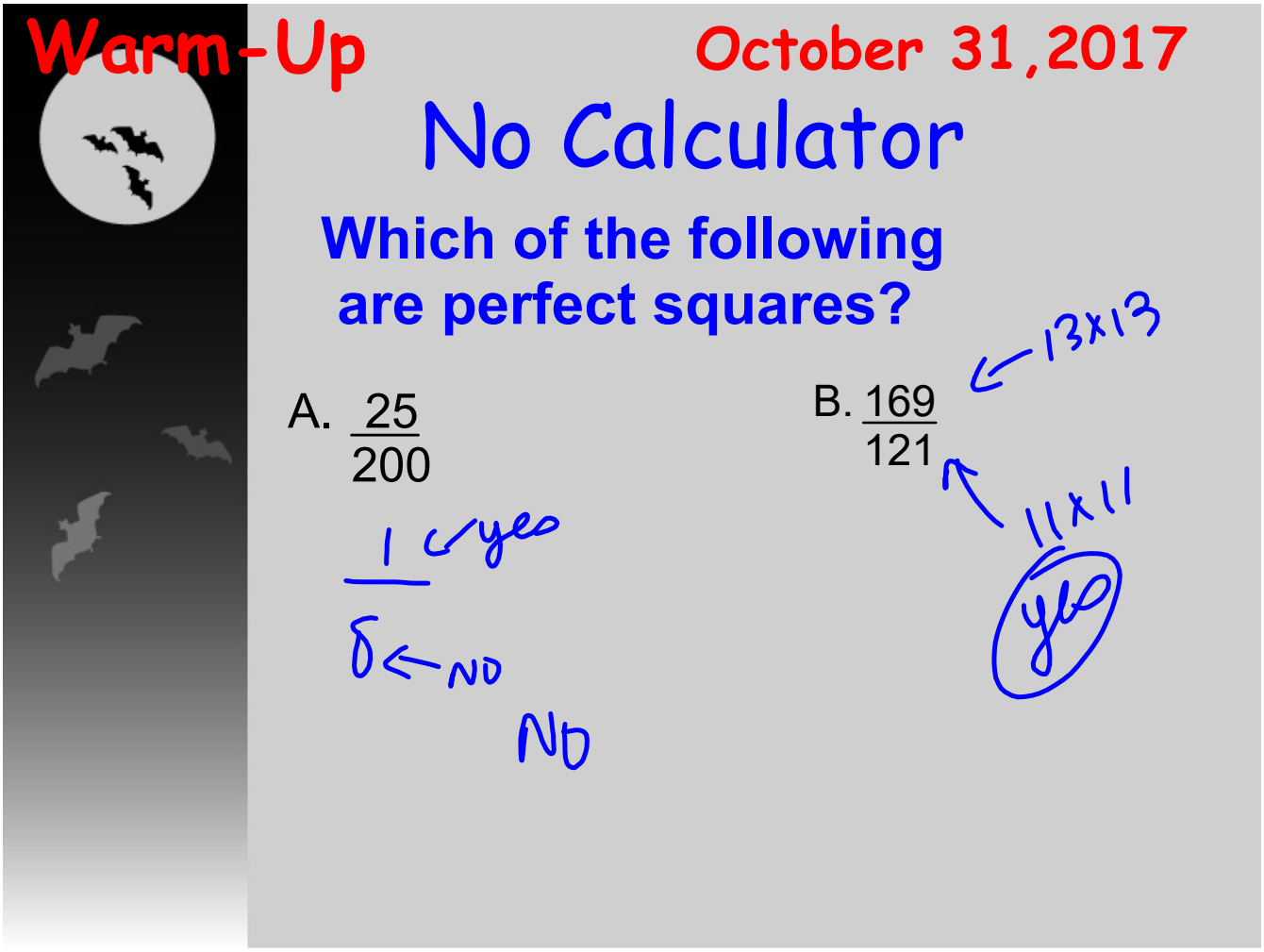
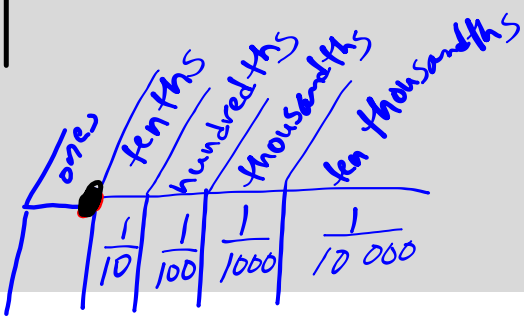

Warm-Up
October 31, 2017
No Calculator
Which of the following are perfect squares?
A. 25/200
1 ✓ yes
δ ← NO
NO
B. 169/121
← 13x13
11x11
yes

Square Root of a Decimal

Decimal	Fraction	Square Root
A. 0.49	$\frac{49}{100}$	$\frac{\sqrt{49}}{\sqrt{100}} = \frac{7}{10}$
B. 0.64	$\frac{64}{100}$	$\frac{\sqrt{64}}{\sqrt{100}} = \frac{8}{10}$
C. 1.21	$\frac{121}{100}$	$\frac{\sqrt{121}}{\sqrt{100}} = \frac{11}{10}$
D. 1.44	$\frac{144}{100}$	$\frac{\sqrt{144}}{\sqrt{100}} = \frac{12}{10}$

0.7 $\frac{7}{10}$



Which of the following are perfect squares?

A. $\frac{75}{300}$

$\frac{3}{12}$ $\frac{1}{4}$ ← 1x1, 2x2, yes

B. $\frac{196}{81}$ ← 14x14, 9x9, yes

Remember to convert to fractions first!

C. 0.25 $\frac{25}{100}$ ← 5x5, 10x10, yes

D. 1.96 $\frac{196}{100}$ ← 14x14, 10x10, yes

What are the equal fractions that will give 1/9?

$$\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$$

$$\left(\frac{1}{3}\right)^2$$

Which of the following are perfect squares?

If "no" at first...put in lowest terms then decide!

A. $\frac{40}{200}$ NO

$\frac{4}{20} = \frac{k}{5}$ ← 1×1 ↑ NO

B. $\frac{36}{50}$ NO

$\frac{18}{25}$ ← NO ↑ 5×6

Are they perfect squares

C. $\frac{8}{18}$ yes

$\frac{4}{9}$ 2×2, 3×3

D. $\frac{16}{5}$ 4×4, NO

NO

E. $\frac{2}{9}$ NO, 3×3

NO

Is each decimal a perfect square? [remember to convert it to a fraction in its simplest form]

A. 6.25

$\frac{625}{100}$ ← 25x25

↑ 10x10

yes

B. 0.627

$\frac{627}{1000}$

ND

c) $\frac{400}{10\,000}$ ← 20x20, ↑ 100x100, yes

d) 0.0121, $\frac{121}{10\,000}$ ← 11x11, ↑ 100x100, yes

Find the square root of the following:

a) $\sqrt{1789.29}$ 42.3

b) $\sqrt{533.61}$ 23.1

Find the square root. No calculator!

[Use fractions]

a) $\sqrt{0.16}$

$\frac{\sqrt{16}}{\sqrt{100}}$ $\frac{4}{10}$

b) $\sqrt{1.69}$

$\frac{\sqrt{169}}{\sqrt{100}}$ $\frac{13}{10}$

Calculate the number whose square root is...

copy as 1 fraction

a) 5

$\sqrt{?} = 5^{x5}$

$? = 25$

b) $\frac{1}{4}$

$\sqrt{?} = \frac{1}{4} \times \frac{1}{4}$

$\sqrt{\frac{1}{16}}$

c) 0.15

$\sqrt{?} = \frac{15}{100}$ $\frac{15}{x10}$

$\frac{225}{10\,000}$

Homework

Page 11-12

5 , 7, 8, 9

5g) $\sqrt{0.36}$ $\sqrt{\frac{36}{100}} = \frac{6}{10}$

* Remember convert decimals to fractions *