

Warm-Up

8/16/17

$$1. (-11) + (-7) = -18$$

$$2. -40 - 22 = -62$$

$$3. -52 \div 4 = -13$$

$$4. -24 \div 8 \cdot 2 \cdot (-6) =$$

$$5. 45 \div [8(5 - 4) - 3] =$$

$$45 \div [8(1) - 3]$$

$$45 \div (8 - 3)$$

$$45 \div 5 = 9$$

$$-24 \div 8 = 2 \cdot (-6)$$

$$-3 \cdot 2 = (-6)$$

$$-6 \cdot (-6) = \boxed{36}$$

Turn in your home
work on Negative &
Positive Integers in
Real World.

Essential Question

8/16/17

- How can we estimate square roots of numbers?

Square Numbers or Perfect Squares

$$\star 1 \times 1 = 1$$

$$\star 2 \times 2 = 4$$

$$\star 3 \times 3 = 9$$

$$\star 4 \times 4 = 16$$

$$\star 5 \times 5 = 25$$

$$\star 6 \times 6 = 36$$

$$\star 7 \times 7 = 49$$

$$\star 8 \times 8 = 64$$

$$\star 9 \times 9 = 81$$

$$\star 10 \times 10 = 100$$

$$\star 11 \times 11 = 121$$

$$\star 12 \times 12 = 144$$

$$\star 13 \times 13 = 169$$

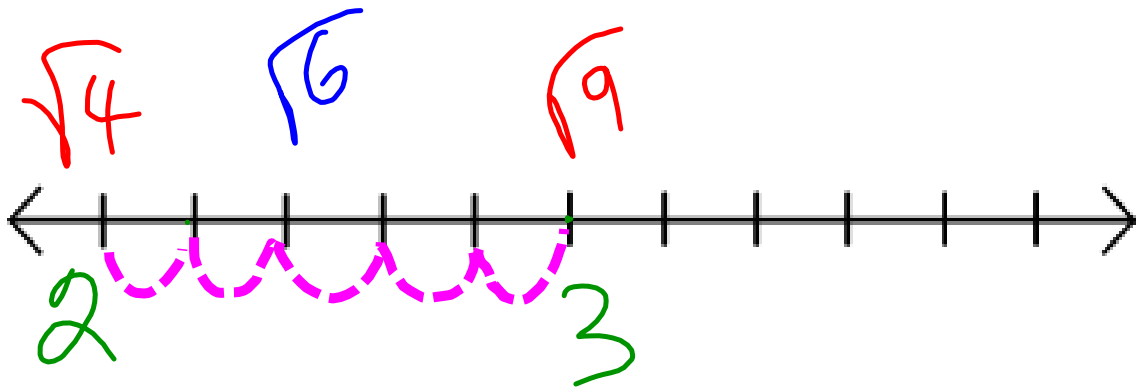
$$\star 14 \times 14 = 196$$

$$\star 15 \times 15 = 225$$

Estimating Square Roots

Example 1: Estimate

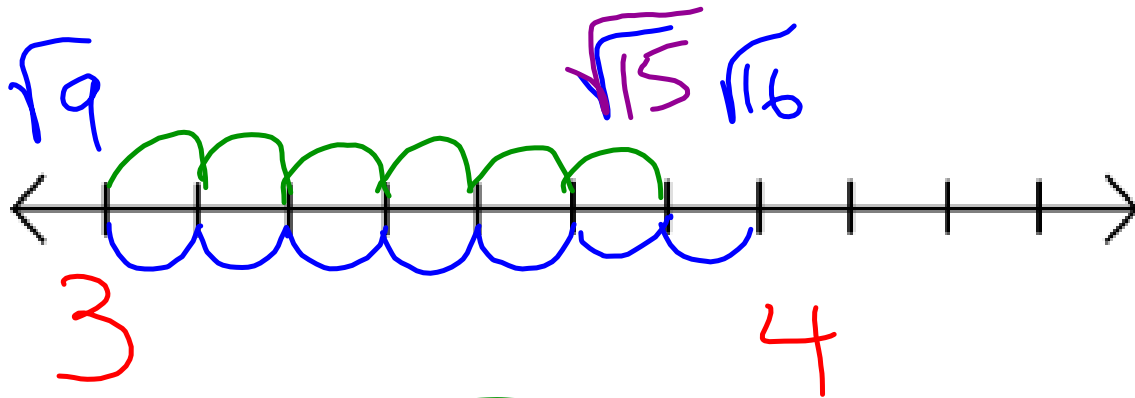
$$\sqrt{6}$$



$$\begin{array}{r} \boxed{\begin{array}{r} 2 \\ 2 \\ \hline 5 \end{array}} \end{array} \quad \begin{array}{l} (6-4) \\ (9-4) \end{array}$$

Estimating Square Roots

Example 2: Estimate $\sqrt{15}$



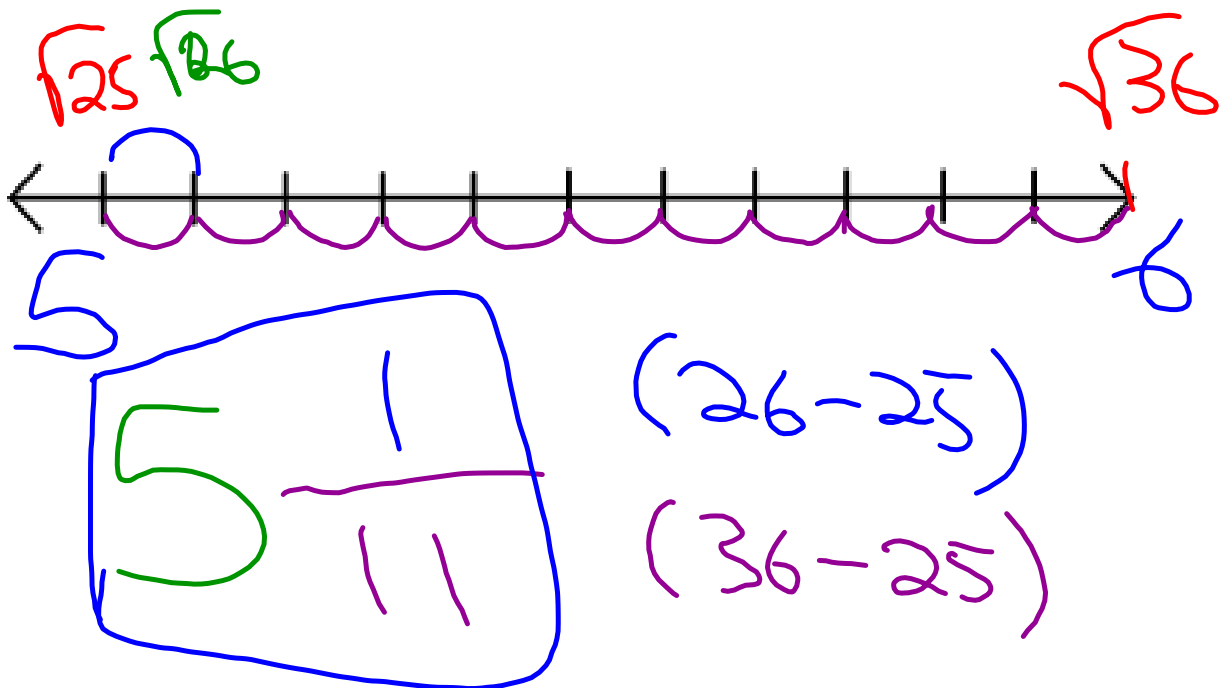
$$\begin{array}{r} 3 \\ \hline 6 \\ 7 \end{array}$$

$$(15 - 9)$$

$$(16 - 9)$$

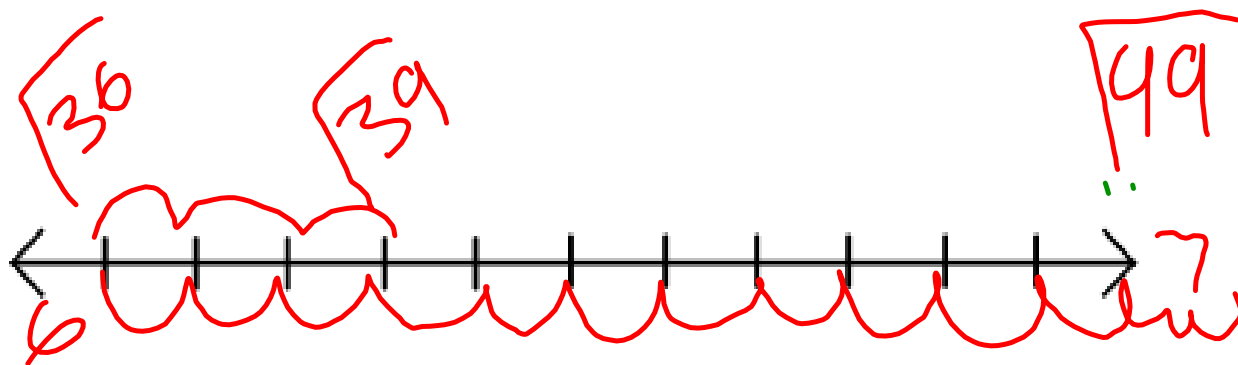
Estimating Square Roots

Example 3: Estimate $\sqrt{26}$



Estimating Square Roots

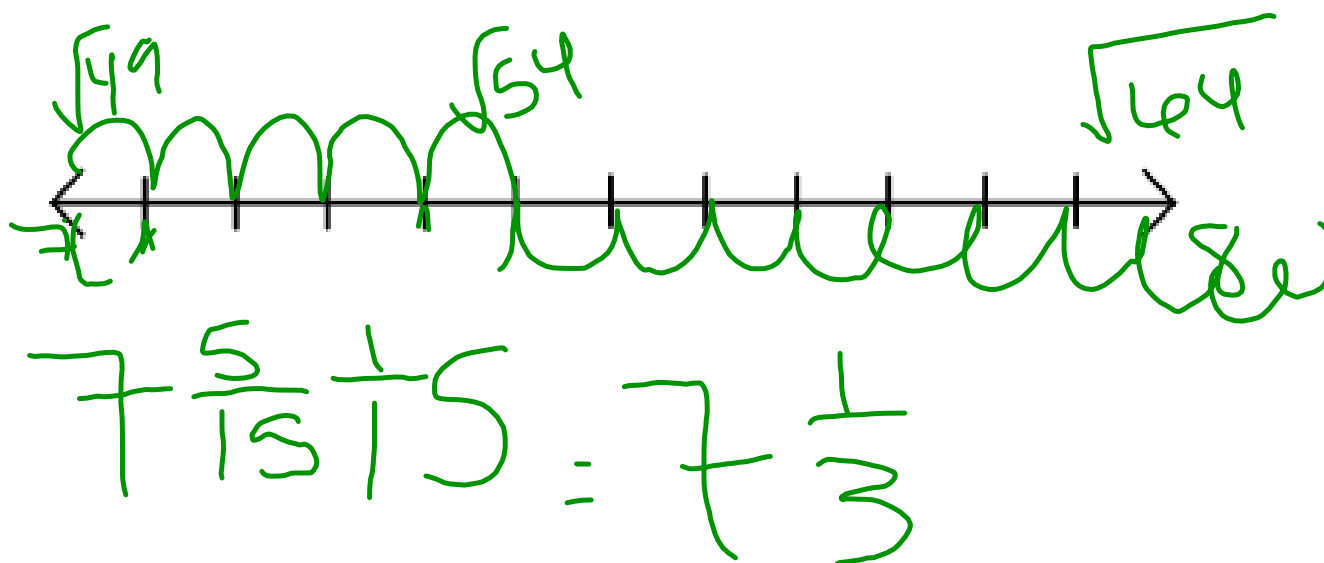
Example 4: Estimate $\sqrt{39}$

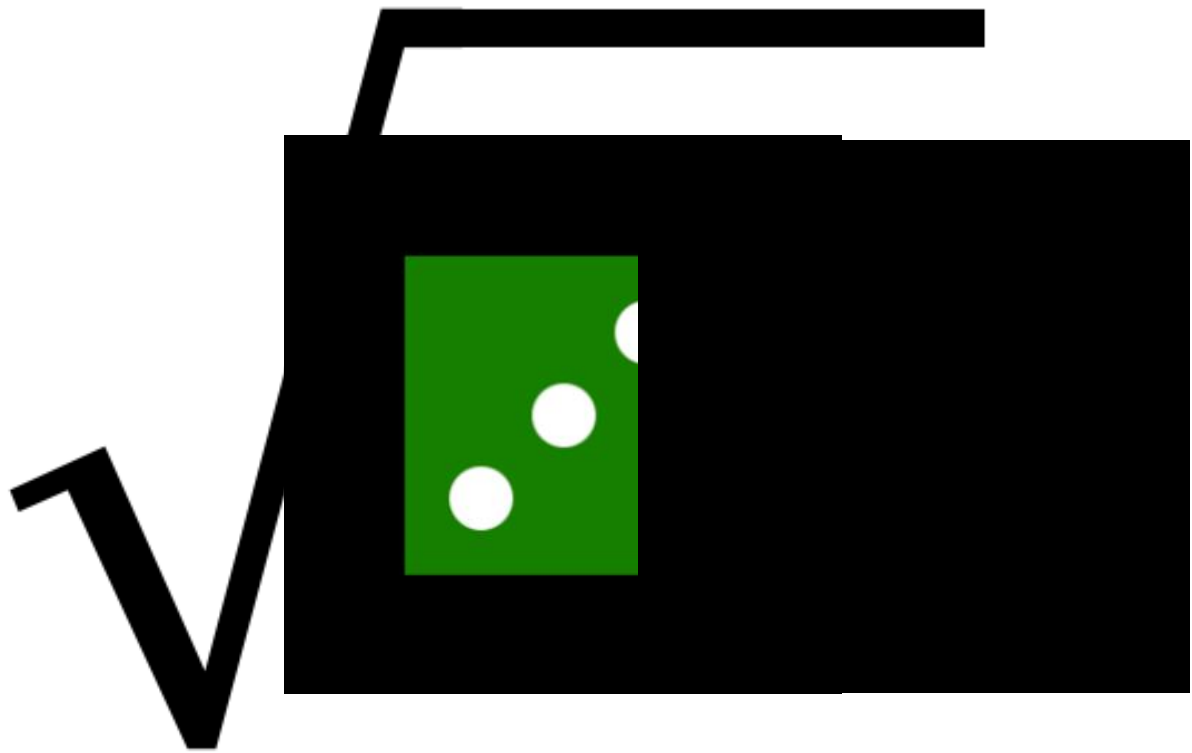


$$6\frac{3}{13}$$

Estimating Square Roots

Example 5: Estimate $\sqrt{54}$





Exit Ticket

$$\sqrt{33}$$

Estimate this

Home Work 8/17/16

**Complete #s 1 - 7 of the
Module 1 Study Guide**

Closing - INB 8/17/16

Without multiplying or dividing, determine whether the product or the quotient will be negative or positive. Explain your answer.

1. $-7,593/3$

2. $589 \times (-15)$

