

# 11.1 – 11.2 Review

This review can be used as a domino review or as a treasure hunt in which students start at one station. They work the problem, then go to the other stations to find the card with their answer on it. They then complete the problem on that card and the process continues.

Answer

Question

$$15\sqrt{10}$$

$$\sqrt{75x^8}$$

$$\sqrt{x} \cdot \sqrt{x} \cdot \sqrt{x} \cdot \sqrt{x} \cdot \sqrt{x}$$

Answer

Question

$$5x^4\sqrt{3}$$

New

$$\sqrt{10x} \cdot \sqrt{10x}$$

10

Answer

$$10x$$

Question

NEW

$$\sqrt{50x} \cdot \sqrt{2}$$

$$5\sqrt{2} \cdot \sqrt{x} \cdot \sqrt{2}$$

$$5 \cdot 2 \cdot \sqrt{x}$$

Answer

Question

$$10\sqrt{x} + \sqrt{7} - 6\sqrt{7}$$

$1x - 6x$   
 $-5x$

Answer

$$-5\sqrt{7}$$

Question

$$\frac{5}{\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}}$$

$$= \quad ? \quad ? \quad ?$$

Answer

$$\frac{5\sqrt{6}}{6}$$

Question

$$(x+2)(x-3)$$

$$(\sqrt{3}-5)(\sqrt{3}+4)$$

$$\sqrt{3} \cdot \sqrt{3} + 4\sqrt{3} - 5\sqrt{3} - 20$$

$$3 + 4\sqrt{3} - 5\sqrt{3} - 20$$

$$-17 - \sqrt{3}$$

Answer

Question

$$-\sqrt{3} - 17$$

$$\sqrt{40}$$

$$\sqrt{20} \cdot \sqrt{2}$$

$$\sqrt{\frac{40}{121}}$$

$\frac{\sqrt{40}}{\sqrt{121}}$

$\sqrt{40}$

11



$\sqrt{2} \cdot \sqrt{10}$

Answer

$2\sqrt{10}$

Question

$$\frac{2\sqrt{10}}{11}$$

$$\frac{8}{\sqrt{2}} \cdot \sqrt{2}$$

$$\frac{8\sqrt{2}}{2}$$

Answer

Question

$$4\sqrt{2}$$

$$\sqrt{6}(\sqrt{2} - 5)$$

$$\begin{array}{r} \sqrt{6} \cdot \sqrt{2} - 5\sqrt{6} \\ \sqrt{3} \cdot \sqrt{2} \cdot \sqrt{2} - 5\sqrt{6} \\ 2\sqrt{6} - 5\sqrt{6} \end{array}$$

$$2\sqrt{3} - 5\sqrt{6}$$

Answer

Question

$$2\sqrt{3} - 5\sqrt{6}$$

$$\sqrt{18} - \sqrt{32}$$

$$\begin{array}{r} 27 \\ \times 4 \\ \hline 108 \end{array}$$

$$\sqrt{9} \cdot \sqrt{2} - \sqrt{16} \cdot \sqrt{2}$$

$$3\sqrt{2} - 4\sqrt{2}$$

Answer

$$x \sqrt{x^3} \sqrt{2}$$

Handwritten annotations:  $x^3$  above the radical,  $\sqrt{x} \sqrt{x} \sqrt{x}$  below the radical, and a circle around the first two  $\sqrt{x}$  terms.

$$\sqrt{98} \sqrt{2} \cdot \sqrt{49}$$

Handwritten annotations:  $\sqrt{98}$  above  $\sqrt{2}$ , and a circle around  $\sqrt{49}$ .

Question

$$\sqrt{\frac{98x^3}{64}}$$

Handwritten annotations:  $\sqrt{98x^3}$  above the fraction and  $\sqrt{64}$  below the fraction.

$$\frac{7x\sqrt{2x}}{8}$$

Handwritten annotations:  $7x\sqrt{2x}$  above the denominator 8.

$$7\sqrt{2}$$

Answer

Question

$$\frac{7x\sqrt{2x}}{8}$$

$$5\sqrt{90}$$

$$5 \cdot 3 \cdot \sqrt{10}$$
$$15\sqrt{10}$$

$$\sqrt{9} \cdot \sqrt{10}$$
$$3\sqrt{5} \cdot \sqrt{2}$$

①



3

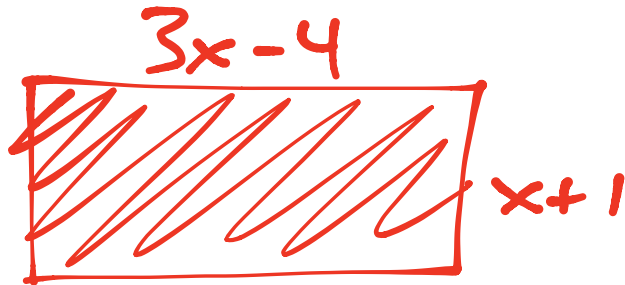
$$\frac{\overset{\text{Big}}{4}}{\sqrt{5}} \cdot \sqrt{5} = \frac{4\sqrt{5}}{5}$$

4

Write a trinomial  
with a GCF of  $2x$

$$2x(x+1)(x+2)$$
$$(2x^2+2x)(x+2)$$

5 Find the Area



$$A = l \cdot w$$

$$(3x-4)(x+1)$$

⋮