

Divide square roots

Name _____

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Date _____

Simplify.

1) $\frac{6\sqrt{5x^2}}{4\sqrt{2x}}$

2) $\frac{5\sqrt{3mn^2}}{\sqrt{6m^2n^2}}$

3) $\frac{8b}{4\sqrt{2a^2b}}$

4) $\frac{3\sqrt{2x}}{4\sqrt{6x}}$

5) $\frac{\sqrt{5a^2}}{\sqrt{2a^4}}$

6) $\frac{\sqrt{4n^3}}{5\sqrt{20n^2}}$

7) $\frac{6\sqrt{3x}}{\sqrt{8x^3}}$

8) $\frac{6p}{\sqrt{6p}}$

9) $\frac{\sqrt{4u^4v^2}}{6\sqrt{7uv}}$

10) $\frac{\sqrt{3n}}{\sqrt{7n}}$

$$11) \frac{\sqrt{3x^4}}{6\sqrt{7x^2}}$$

$$12) \frac{8\sqrt{40b^3}}{\sqrt{15b^4}}$$

$$13) \frac{2}{\sqrt{5+5}}$$

$$14) \frac{2}{5-4\sqrt{2}}$$

$$15) \frac{3}{5+\sqrt{2}}$$

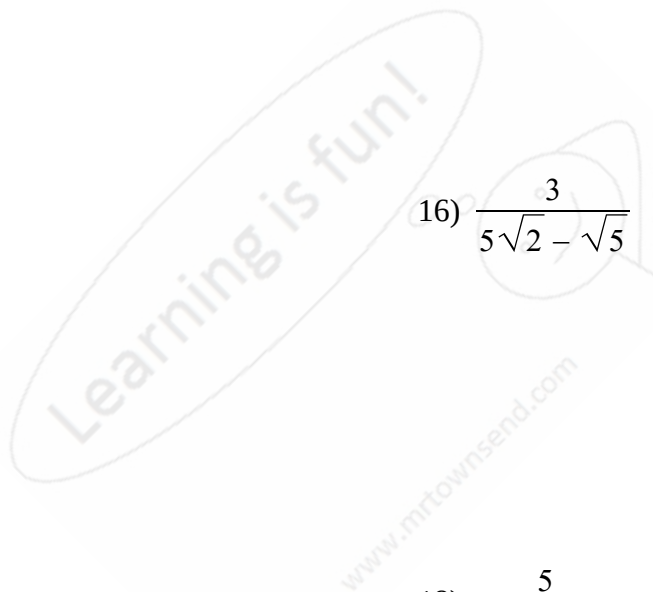
$$16) \frac{3}{5\sqrt{2}-\sqrt{5}}$$

$$17) \frac{\sqrt{2}}{5\sqrt{5}-\sqrt{3}}$$

$$18) \frac{5}{-2-5\sqrt{3}}$$

$$19) \frac{\sqrt{2}}{\sqrt{5}-2\sqrt{3}}$$

$$20) \frac{\sqrt{3}}{-2+3\sqrt{2}}$$



Answers to

$$1) \frac{3\sqrt{10x}}{4}$$

$$5) \frac{\sqrt{10}}{2a}$$

$$9) \frac{u\sqrt{7uv}}{21}$$

$$13) \frac{-\sqrt{5} + 5}{10}$$

$$17) \frac{5\sqrt{10} + \sqrt{6}}{122}$$

$$2) \frac{5\sqrt{2m}}{2m}$$

$$6) \frac{\sqrt{5n}}{25}$$

$$10) \frac{\sqrt{21}}{7}$$

$$14) \frac{-10 - 8\sqrt{2}}{7}$$

$$18) \frac{10 - 25\sqrt{3}}{71}$$

$$3) \frac{\sqrt{2b}}{a}$$

$$7) \frac{3\sqrt{6}}{2x}$$

$$11) \frac{x\sqrt{21}}{42}$$

$$15) \frac{15 - 3\sqrt{2}}{23}$$

$$19) \frac{-\sqrt{10} - 2\sqrt{6}}{7}$$

$$4) \frac{\sqrt{3}}{4}$$

$$8) \sqrt{6p}$$

$$12) \frac{16\sqrt{6b}}{3b}$$

$$16) \frac{5\sqrt{2} + \sqrt{5}}{15}$$

$$20) \frac{2\sqrt{3} + 3\sqrt{6}}{14}$$

