

49-52 → A ☺

44-48 → B ☹

38-43 → C ☹

34-37 → D ☹

33 ↓ → F ☹

52*.84	48.36
52*.72	43.68
52*.64	37.44
■	33.28

$$10) \sqrt{x^2} = 63$$

$$x = \pm \sqrt{9} \cdot \sqrt{7}$$

$$\underline{\underline{x = \pm 3\sqrt{7}}}$$

$$11. \frac{-8x^2}{-8} = \frac{-48}{-8}$$

$$\sqrt{x^2} = \pm \sqrt{6}$$

$$\underline{\underline{x = \pm \sqrt{6}}}$$

12. $\frac{12x^2}{12} = \frac{-120}{12}$ 13. 4

$\sqrt{x^2} = \sqrt{-10}$ *No Solution*

Write the expression in simplest form.

$$14. 5x^2 - 44 = 81$$

$$\begin{array}{r} +44 \quad +44 \\ \hline \end{array}$$

$$\frac{5x^2}{5} = \frac{125}{5}$$

$$\sqrt{x^2} = \pm \sqrt{25}$$

$$x = \pm 5$$

$$13. \frac{4x^2}{4} = \frac{64}{4}$$

$$\rightarrow x^2 = \pm 16$$

it form.

$$\underline{\underline{x = \pm 4}}$$

$$\begin{aligned} 17. \frac{1}{5} \sqrt{15} &= \frac{1}{5} \sqrt{5 \cdot 3} \\ &= \frac{1}{\cancel{5}} \cdot \cancel{5} \cdot \sqrt{3} \\ &= \underline{\underline{\sqrt{3}}} \end{aligned}$$

18. $-3\sqrt{9} =$

$$-3 \cdot 3 = \underline{\underline{-9}}$$

$$25. \sqrt{\frac{2}{3}} = \frac{\sqrt{2} \sqrt{3}}{\sqrt{3} \sqrt{3}} \quad 26$$

$$= \frac{\sqrt{6}}{3}$$

. to the nearest tenth without a calculator

23. $\sqrt{\frac{5}{16}} = \frac{\sqrt{5}}{\sqrt{16}} = \frac{\sqrt{5}}{\underline{\underline{4}}}$

$$\begin{aligned} 19. \quad 2\sqrt{120} &= \\ &= 2\sqrt{4 \cdot 30} \\ &= 2 \cdot 2 \cdot \sqrt{30} \\ &= \underline{\underline{4\sqrt{30}}} \end{aligned}$$

$$21. \frac{\sqrt{45}}{9} = \frac{\sqrt{9 \cdot 5}}{9}$$

$$= \frac{\cancel{3} \sqrt{5}}{\cancel{9} 3} = \frac{\sqrt{5}}{\underline{\underline{3}}}$$

24. $\sqrt{\frac{32}{4}} = \sqrt{8}$
 $= \sqrt{4} \cdot \sqrt{2}$
 $= 2\sqrt{2}$

Bonus: Approximate the radical to 1

$$\begin{aligned} 20. \quad \frac{1}{3} \sqrt{12} &= \frac{1}{3} \sqrt{4 \cdot 3} \\ &= \frac{1}{3} \cdot 2 \cdot \sqrt{3} \\ &= \frac{2}{3} \sqrt{3} \text{ or } \frac{2\sqrt{3}}{3} \end{aligned}$$

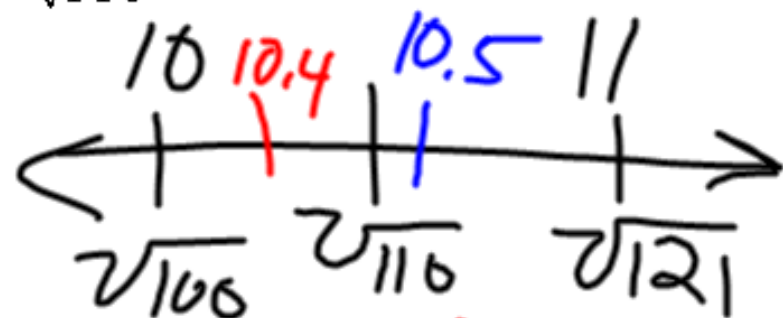
$$\begin{aligned} 22. \quad & \sqrt{\frac{5}{20}} = \sqrt{\frac{1}{4}} \\ & = \frac{\sqrt{1}}{\sqrt{4}} = \frac{1}{\underline{\underline{2}}} \end{aligned}$$

$$\begin{aligned} 26. \sqrt{\frac{36}{5}} &= \frac{\sqrt{36}}{\sqrt{5}} = \frac{6}{\sqrt{5}} = \frac{6 \cdot \sqrt{5}}{\sqrt{5} \cdot \sqrt{5}} \\ &= \frac{6\sqrt{5}}{5} \end{aligned}$$

calculator.

Bonus: Approximate the radical to the nearest tenth
Remember to show all eight steps.

$$\sqrt{110}$$



O.T.L.

① Finish the Quiz Cor.

② Pg 553-554 : 1-12
all

Both
Due
Start at the
Thurs.

- Write the original
- Show ALL work
- Box Answers
- Skip a Space