

Use $>$, $<$, or $=$ to make each statement true.

$$1. -0.86 < -0.84$$

$$2. -1\frac{3}{10} = \left(\frac{-13}{-10}\right) - \frac{3}{10}$$

$$3. -\frac{2}{5} > -2\frac{7}{8}$$

$$4. -\left(\frac{-12}{-5}\right) = -2.4$$

$$-2\frac{2}{5}$$

$$-2.4$$

Calculate

$$5. -0.85 - (-2.34) = 1.49$$

$$6. -3.77 \div (-2.9) = 1.3$$

$$7. -0.25 (-0.031) = 0.00775$$

$$-5.3 + -1.2$$

$$8. -5.3 + 2.4 [7.8 + (-8.3)^{-0.5}] = -6.5$$

9. One evening in Kamloops, the temperature decreased from 2.4°C to -3.2°C in 3.5 hours. What was the average change in temperature?

$$5.6 / 3.5 = 1.6^{\circ}\text{C average change}$$

Solve

10. $-3\frac{3}{5} + 1\frac{7}{10} =$
 $-3\frac{6}{10} + 1\frac{7}{10} =$
 $-\frac{36}{10} + \frac{17}{10} = -\frac{19}{10} = \boxed{-1\frac{9}{10}}$

11. $-\frac{1}{2} \left(-\frac{8}{9}\right) = \frac{8}{18} \Rightarrow \boxed{\frac{4}{9}}$

12. $-\frac{5}{7} \div \frac{7}{8} = -\frac{5}{7} \times \frac{8}{7} = \boxed{-\frac{40}{49}}$

13. Without using a calculator, determine if each rational number is a perfect square. If yes, indicate the square root in the same form as the question.

a) $\frac{36}{81} = \frac{6}{9}$ Yes

b) $1.7 = \frac{17}{10}$ No

c) $0.81 = \frac{81}{100} \Rightarrow \frac{9}{10}$ Yes

14. Determine the number with a square root of 0.19.

$$\boxed{0.0361}$$

15. A square has an area of 1.69 m^2 . What is the perimeter of the square?

$$1.3$$



$$1.3 \times 4$$

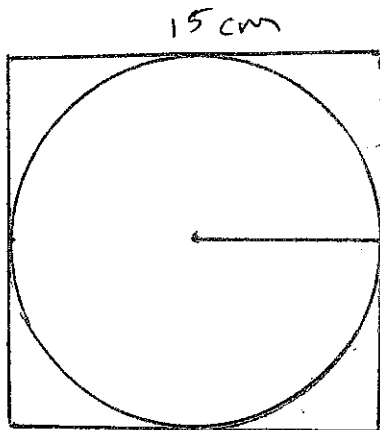
$$\boxed{5.2 \text{ m}}$$

16. Using the $\sqrt{49}$ and $\sqrt{64}$, estimate the $\sqrt{51}$ to the nearest tenth. Show your work (Do not use a calculator).

$$\sqrt{49} \quad \begin{array}{c} 7.5 \\ \sqrt{56.5} \\ \text{halfway} \end{array} \quad \sqrt{64}$$

$$\frac{15}{2} = 7.5$$

$$\text{Est. } \boxed{7.1} \text{ or } 7.2$$



- A square has an area of 225 cm^2 . What is the radius of the largest circle that can fit inside the square?

$$\boxed{\text{Radius} = 7.5 \text{ cm}}$$