

Bellwork: ☺

Find distance, midpoint, &
slope: $(-2, 7)$ $(-9, -17)$

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

$$d = \sqrt{(-2 - -9)^2 + (7 - -17)^2}$$

$$d = \sqrt{(7)^2 + (24)^2}$$

$$d = \sqrt{49 + 576}$$

$$d = \sqrt{625}$$

$$d = 25$$

$$\text{Midpoint: } \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$(-2, 7) \quad (-9, -17)$$

$$\left(\frac{-2 + -9}{2}, \frac{7 + -17}{2} \right)$$

$$\left(\frac{-11}{2}, \frac{-10}{2} \right)$$

$$(-5.5, -5)$$

$$\text{Slope: } \frac{y_2 - y_1}{x_2 - x_1}$$

$$\begin{matrix} (-2, 7) \\ (-9, -17) \end{matrix}$$

$$\frac{-17 - 7}{-9 - -2} = \frac{-24}{-7} = \frac{24}{7}$$

p. 8

⑨

$$\frac{17(2+26)}{4}$$

$$\frac{17(28)}{4}$$

$$\frac{476}{4}$$

$$\boxed{119}$$

$$\textcircled{23} \quad 4 + 64 \div (8 \cdot 4) \div 2$$

$$4 + 64 \div 32 \div 2$$

$$4 + 2 \div 2$$

$$4 + 1$$

$$\textcircled{5}$$

$$\textcircled{7} \quad [9 + 3(5 - 7)] \div 3$$

$$[9 + 3(-2)] \div 3$$

$$[9 + -6] \div 3$$

$$3 \div 3$$

①

26

$$1 - [30 \div [7 + 3(-4)]]$$

$$1 - [30 \div [7 + -12]]$$

$$1 - [30 \div -5]$$

$$1 - (-6)$$

⑦

$$\textcircled{45} \quad (5-w)^2 + x$$

$$w=6$$

$$x=0.4$$

$$(5-6)^2 + 0.4$$

$$(-1)^2 + 0.4$$

$$1 + 0.4$$

$$\boxed{1.4}$$

$$\textcircled{47} \quad \frac{2z - 15x}{3y}$$

$$x=0.4$$

$$y=\frac{1}{2}$$

$$z=-3$$

$$\frac{2(-3) - 15(0.4)}{3(\frac{1}{2})}$$

$$\frac{-6 - 6}{1.5}$$

$$\frac{-12}{1.5}$$

$$= \textcircled{-8}$$

Worksheet - Classwork / Homework

open notes/hw

Answers to 9, 23, 26, 47

Work out

$$[9 + 3(5 - 7)] \div 3$$

$$d = \sqrt{(-2 - (-9))^2 + (7 - (-17))^2}$$

$$d = \sqrt{7^2 + 24^2}$$

$$d = \sqrt{49 + 576}$$

$$d = \sqrt{625}$$

$$d = 25$$

$$\text{Midpoint: } \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$\left(\frac{-2 + 9}{2}, \frac{7 + (-17)}{2} \right)$$

$$\frac{-11}{2}, \frac{-10}{2} =$$

$$\left(\frac{-11}{2}, \frac{-10}{2} \right)$$

$$(-5.5, -5)$$

Slope

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-17 - 7}{-9 - -2} = \frac{-24}{-7}$$

$$\frac{24}{7}$$

P.8 (44) $Z^4 - W$
 $Z = -3$ $(-3)^4 - 6$
 $W = 6$ $81 - 6$
 $\square \wedge x^y y^x$ (75)

(12) $X + [3(y+z) - y]$

$X = 4$
 $y = -2$
 $z = 6$

$4 + [3(-2+6) - -2]$

$4 + [3 \cdot 4 + 2]$

$4 + [12 + 2]$

$4 + 14$

(18)

(14) $I = prt$

$$I = (5000)(0.0375)(10)$$

$$I = \$1875$$

(23) $4 + 64 \div (8 \times 4) \div 2$

$$4 + 64 \div 32 \div 2$$

$$4 + 2 \div 2$$

$$4 + 1$$

(5)

$$\textcircled{47} \frac{2z - 15x}{3y}$$

$$z = -3$$

$$x = 0.4$$

$$y = \frac{1}{2}$$

$$= \frac{2(-3) - 15(0.4)}{3 \cdot \frac{1}{2}}$$

$$= \frac{-6 - 6}{1.5}$$

$$= \frac{-12}{1.5}$$

$$= -8$$

① Work out - show work

$$4 + 64 \div (8 \times 4) \div 2$$

Write only answers to
#^{'s} 47, 14, 12, 44

Kim
→
was here

