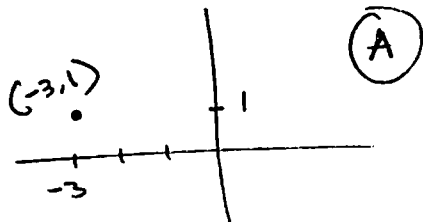


(18)

$$\begin{aligned}\text{Cost} &= 3 \times 1.20 + 5 \times 0.80 \\ &= 3.60 + 4.00 \\ &= 7.60\end{aligned}\quad \textcircled{D}$$

(19)



$$20) \frac{42}{x} = \frac{6}{11}$$

$$\text{CM} \rightarrow 42 \cdot 11 = 6 \cdot x$$

$$462 = 6x$$

$$\frac{462}{6} = x$$

$$77 = x$$

 $\textcircled{B}$

$$21) A = lw$$

$$41\frac{1}{4} = 7\frac{1}{2} \cdot w$$

$$\frac{165}{4} = \frac{15}{2} w$$

$$\frac{165}{4} \cdot \frac{2}{15} = w$$

$$\frac{11}{2} = w$$

$$5\frac{1}{2} = w$$

 $\textcircled{C}$

$$22) \frac{x^4 y^2}{x^3 y^3} = \frac{x}{y} \quad \textcircled{D}$$

$$23) x + y = 5$$

$$\text{Let } x=0 \rightarrow 0 + y = 5$$

$$\text{so } (0, 5)$$

$$\text{Let } x=1 \rightarrow 1 + y = 5$$

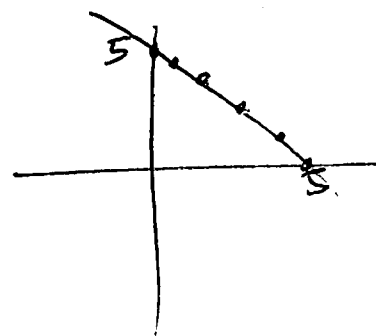
$$\text{so } (1, 4)$$

$$\text{Let } x=2 \rightarrow 2 + y = 5$$

$$\text{so } (2, 3)$$

$$\text{Let } x=3 \rightarrow 3 + y = 5$$

$$\text{so } (3, 2)$$



$$24) \frac{4d}{200p} = \frac{x}{1000p}$$

$$\text{CM} \rightarrow 4 \cdot 1000 = 200x$$

$$4000 = 200x$$

$$\frac{4000}{200} = x$$

$$20 = x$$

 $\textcircled{B}$

25)

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2} \cdot 6 \text{ in} \cdot 9 \text{ in}$$

$$A = 3 \text{ in} \cdot 9 \text{ in}$$

$$A = 27 \text{ in}^2$$

 $\textcircled{C}$

1) 7,942.6358

"hundred"

→ 7,900 (C)

2) $2.1 + 3x = -4.5$

$3x = -4.5 - 2.1$

$3x = -6.6$

$x = \frac{-6.6}{3}$

$x = -2.2$ (D)

3) $5 + 4(7-5)^2$

"grouping" symbol
So, need to do the inside
operation first (A)

4) "subtracted from"

→ passive voice

$-15 - x = -20$

$-x = -20 + 15$

$-x = -5$

$x = \frac{-5}{-1}$

$x = 5$ (C)

5) $3x - 5 = 5x + 6$

$-5 = 5x + 6 - 3x$

$-5 = 2x + 6$

$-5 - 6 = 2x$

$-11 = 2x$

$-\frac{11}{2} = x$

(C)

6) A earns 70 more than B

→ $A = B + 70$

Together they earn 570

→ $A + B = 570$

$(B + 70) + B = 570$

$2B + 70 = 570$

$2B = 570 - 70$

$2B = 500$

$B = \frac{500}{2}$

$B = 250$

→ $A = B + 70$

$A = 250 + 70$

$A = 320$

(D)

7)

$\frac{1740 \text{ mi}}{6 \text{ hr}} = \frac{x}{1 \text{ hr}}$

CM → $1740 \cdot 1 = 6 \cdot x$

$1740 = 6x$

$\frac{1740}{6} = x$

$290 = x$

→ 290 mi (A)

8) $\frac{3}{10}$ children

$1 - \frac{3}{10}$ not children

$= \frac{10}{10} - \frac{3}{10}$ (B)

$= \frac{7}{10}$

9) $9.6 + 9$

-21

$= \frac{54 + 9}{-21}$

$= \frac{63}{-21}$

$= -3$

(C)

10) $5 + 2(3x + 4) - x$

$= 5 + 6x + 8 - x$

$= 13 + 5x$

(D)

11) $\frac{1}{3}x = 6$ (PAGE 1)
 $x = 6 \cdot \frac{3}{1}$ (A)
 $x = \frac{18}{1}$
 $x = 18$

12) $x = 70\% \cdot 40$

$x = 0.7 \cdot 40$

$x = 28$ (B)

13) $\frac{-0.5}{0.002} = \frac{-500}{2}$

(A) $= -250$

14) Method I: LCD

$\frac{5}{4}, \frac{4}{5}, \frac{4}{3}, \frac{3}{4}$

$\frac{75}{60}, \frac{48}{60}, \frac{80}{60}, \frac{45}{60}$ (C)

Method II: Decimal

$\frac{5}{4}, \frac{4}{5}, \frac{4}{3}, \frac{3}{4}$ (C)
 $1.25, 0.8, 1.\bar{3}, 0.75$

15) $4 \cdot (n + n^2)$ (A)

16) $5\frac{1}{3}\% = \frac{5\frac{1}{3}}{100}$

OR $5\frac{1}{3} \cdot \frac{1}{100} = \frac{\frac{16}{3}}{100} \cdot \frac{3}{3}$
 $= \frac{16}{3} \cdot \frac{1}{100} = \frac{16}{300}$
 $= \frac{4}{75} \cdot \frac{1}{25} = \frac{4}{75}$ (B)

$= \frac{4}{75}$

17) Tax = $9\% \cdot 60$

Tax = 0.09×60

Tax = 5.40 (C)