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Class: 3C3

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No.

Maths D Holiday Hw

Arithmetic 1.2 P2

$$\begin{aligned} 6i. \text{ Total cost} &= \$[(18.50 \times 6) + (3 \times 32)] \\ &= \$[111 + 96] \\ &= \$207 \quad (\text{shown}) \end{aligned}$$

$$\begin{aligned} (c) \text{ Total time} &= 3 + 5\frac{1}{2} \frac{3}{4} \\ &= 9\frac{1}{4} \text{ hr} \end{aligned}$$

$$\begin{aligned} \text{Arrival time at A} &= 9\frac{1}{4} \text{ hr after 07 30} \\ &= 16 45 \end{aligned}$$

$$\begin{aligned} 6ii(a). \text{ No. of magazines} &= \$ (207 \div 0.40) \\ &= 517.5 \\ &\approx 518 \end{aligned}$$

$$\begin{aligned} d. \text{ Litres} &= (198 \times 2) \div 3 \\ &= 30.46 \dots \\ &= 31 \text{ L} \end{aligned}$$

$$\begin{aligned} 6ii(b). \text{ Profit} &= \$[(600 \times 0.40) - 207] \\ &= \$[240 - 207] \\ &= \$33 \end{aligned}$$

$$\begin{aligned} 8a(i). \text{ Dollars received} &= \$ (1.50 \times 240) \\ &= \$360 \end{aligned}$$

$$\begin{aligned} \% \text{ profit} &= \frac{33}{207} \times \frac{100}{1} \\ &= 15.94 \dots \\ &= 15.9\% \quad (3sf) \end{aligned}$$

$$\begin{aligned} 8a(ii). \$1.50 &= 7.65F \\ \$1 &= 5.1F \end{aligned}$$

$$\begin{aligned} 8a(iii). \text{ Pounds} &= £ (900 \div 1.50) \\ &= £600 \end{aligned}$$

$$\begin{aligned} 6ii(c). \text{ Remainder} &= \frac{96}{100} \times \frac{600}{1} \\ &= 576 \end{aligned}$$

$$\begin{aligned} 8a(iv)(a). \$900 &\div £552 = \$1.6304 \dots \\ \$1.63 &= £1 \end{aligned}$$

$$\begin{aligned} \text{Amt of money received} &= \$ (576 \times 0.40) \\ &= \$230.40 \end{aligned}$$

$$\begin{aligned} 8a(iv)(b). \text{ Loss} &= £ (600 - 552) \\ &= £48 \end{aligned}$$

$$\begin{aligned} \text{Profit made} &= \$ (230.40 - 207) \\ &= \$23.40 \end{aligned}$$

$$\% = \frac{48}{600} \times 100$$

$$= 8\%$$

$$\begin{aligned} 6iii. \text{ Cost in 1995} &= \$ \left(\frac{100}{125} \times \frac{3}{1} \right) \\ &= \$2.40 \end{aligned}$$

$$\begin{aligned} 8b. \text{ Tax} &= £ \left(\frac{10}{110} \times 275 \right) \\ &= £25 \end{aligned}$$

$$\begin{aligned} 7a. \text{ Time taken} &= 198 \div 66 \\ &= 3 \text{ hr} \end{aligned}$$

$$\begin{aligned} b. \text{ Av. sp} &= 198 \div 5\frac{1}{2} \\ &= 36 \text{ km/h} \end{aligned}$$

$$9a(i). \text{Boxes bought} = \$29 \div \$4.80$$

$$= 6.04 \dots$$

$$= 6$$

$$9a(ii) \text{ Money left} = \$[29 - (4.80 \times 6)]$$

$$= \$0.20$$

$$9b. \text{ Price in 1998} = \$\left(\frac{110}{100} \times 4.80\right)$$

$$= \$5.28$$

$$9c. \text{ Price in 1990} = \$\left(\frac{100}{120} \times 4.80\right)$$

$$= \$4$$

$$10a. \text{ Increase} = 392\,000 - 350\,000$$

$$= 42\,000$$

$$\% = \frac{42\,000}{350\,000} \times 100$$

$$= 12\%$$

$$b. \text{ No. of voters} = \frac{18}{100} \times \frac{350\,000}{1}$$

$$= 63\,000$$

$$c(i). \text{ \% of voters} = \frac{91\,000}{460\,000} \times 100$$

$$= 19.78 \dots$$

$$= 20\% \text{ (nearest whole no)}$$

$$c(ii). \text{ No. of voters in 1996} = \frac{100}{140} \times \frac{91\,000}{1}$$

$$= 65\,000$$