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Class: 3C3

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No. -

Maths D Holiday Hw

Arithmetic 1.3 P2

1a(i). Time taken to get dressed = $(\frac{2}{5} \times 40)$ mins
= 10 mins *

a(ii). Time spent swimming = $(\frac{5}{8} \times 40)$ mins
= 25 mins

% = $\frac{25}{40} \times 100$
= 62.5% *

b. % of increment = $\frac{5}{40} \times 100$
= 12.5% *

c. Lessen time in 1992 = $(\frac{100}{125} \times 40)$ mins
= 32 mins *

d(i). New timing = $(\frac{100}{125} \times 100)$ s
= 80 sec

d(ii). Present sp = $(\frac{50}{1000} \div \frac{100}{3600})$
= 1.8 km/h *

2i. Total time = $\{ (8 \times 8\frac{3}{4}) + (5 \times 7\frac{1}{2}) \}$ hr
= $53\frac{1}{2}$ hr *

ii. Increase = $1610 - 1400$
= 210

% = $\frac{210}{1400} \times 100$
= 15% *

iii. Time spent on production = $(\frac{4}{9} \times 54)$ hr
= 24 hr *

$$\text{iv(a). Total super-loops} = \frac{120}{12} + \frac{120}{3} \\ = 75 \#$$

$$\text{iv(b). } 55 = \frac{120}{3} + \frac{120}{k} \\ \frac{120}{k} = 15 \\ k = 8 \#$$

$$\text{3a(i). Cost} = \$ (24 \times 6) \\ = \$ 144 \#$$

$$\text{a(ii) Cost of materials} = \$ \left(\frac{3}{12} \times 6 \right) \\ = \$ 1.50 \#$$

$$\text{a(iii) Money earned} = \$ [2 \times (3 \times 6)] \\ = \$ 36 \#$$

$$\text{a(iv) SP} = \$ \left(\frac{115}{100} \times 6 \right) \\ = \$ 6.90 \#$$

$$\text{b. CP} = \$ \left(\frac{100}{120} \times 9 \right) \\ = \$ 7.50 \#$$

$$\text{c. } m:w:o$$

$$1:2:3 \quad (\text{in } 1992)$$

$$2:3:3 \quad (\text{in } 1993)$$

$$\text{Increase} = (2+3+3) - (1+2+3) \\ = 2$$

$$\% \text{ increase} = \frac{2}{6} \times 100 \\ = 33\frac{1}{3} \#$$

4i. $M:E:S$

$5:6:4$

Mark in Maths = $\frac{5}{15} \times 105$
 $= 35$ #

ii. Mean mark = $\frac{105+19}{4}$
 $= 31$ #

iii. Increase = $26-19$
 $= 7$

% increase = $\frac{7}{19} \times 100$
 $= 36.842 \dots$
 $= 36.8\% \text{ (3sf)}$ #

5i. $C:M:C$

$3:2:5$

Fraction of cocoa = $\frac{3}{10}$ #

ii. Mass of milk = $(\frac{28}{10} \times 2)g$
 $= 5.6g$ #