



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 6



Topic
Fractions



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Worksheet on Fractions

1. When Thor buys a ready-made shirt, two-fifths of my pocket money is spent. If \$1836 is still left with me, what is the money I had before I bought the shirt?
 - a. \$1101.60
 - b. \$3010.00
 - c. \$3030.00
 - d. \$3060.00
2. A string of length 25200 centimetres is cut into pieces each of length $5\frac{1}{4}$ metres. How many pieces are obtained?
 - a. 24
 - b. 48
 - c. 2400
 - d. 4800
3. Hercules's home is $\frac{7}{10}$ kilometres from his school. He walked some distance and then took a van for $\frac{2}{3}$ kilometres up to the school. How far did he walk?
 - a. $\frac{1}{15}$
 - b. $\frac{2}{15}$
 - c. $\frac{1}{30}$
 - d. $\frac{7}{30}$
4. An amount of \$13250 is divided among three friends Jason, Orion and Xavier. If Jason gets one-fifth of it and Orion gets one-fourth of it, how much does Xavier get?
 - a. \$7177.5
 - b. \$7187.5
 - c. \$7277.5
 - d. \$7287.5
5. Mr. Perseus gave one-third of his money to his daughter, two-fifths to his son and the remaining amount to his wife. If his wife got \$10320, how much money did Mr. Perseus have originally?
 - a. \$35700
 - b. \$37700
 - c. \$38700
 - d. \$39700

Answer Key

1. d - \$3060.00

Explanation: Fraction of amount spent on shirt = $\frac{2}{5} \times 1 = \frac{2}{5}$

Fraction of balance amount = $1 - \frac{2}{5} = \frac{3}{5}$

Now, $\frac{3}{5}$ of total money = \$1836

Total money = $\$1836 \times \frac{5}{3} = \3060

2. b - 48

Explanation: Length of string in metre = $25200 \text{ cm} \div 100 = 252 \text{ m}$

Length of each piece = $5 \frac{1}{4} \text{ m} = 21/4 \text{ m}$

Number of pieces = $252 \div 21/4$
 $= 252 \times 4/21$
 $= 12 \times 4$
 $= 48$

3. c - 1/30

Explanation: Distance of Hercules's home from his school = $7/10 \text{ km}$

Distance covered by a van = $2/3 \text{ km}$

Distance of Hercules's home from his school = Distance covered by a van + Distance covered by walking

Distance covered by walking = Distance of Hercules's home from his school – Distance covered by a van

$$= \left(\frac{7}{10} - \frac{2}{3} \right) \text{ km}$$

[LCM of 10 and 3 is 30.]

$$= \frac{7 \times 3}{10 \times 3} - \frac{2 \times 10}{3 \times 10} \quad [\text{LCM of 10 and 3} = 10 \times 3 = 30]$$

$$= \frac{21}{30} - \frac{20}{30}$$

$$= \frac{21 - 20}{30}$$

$$= \frac{1}{30}$$

4. d - \$7287.5

Explanation: Total amount = \$13250

Amount Jason gets = $\frac{1}{5} \times \$13250 = \2650

Amount Orion gets = $\frac{1}{4} \times \$13250 = \3312.5

Hence, Xavier gets the remaining money.

Amount Xavier gets = $\$13250 - (\$2650 + \$3312.5)$
 $= \$13250 - \$5962.5 = \$7287.5$

5. c - \$38700

Explanation:

Let total money Mr Perseus has = \$1

Money given to his daughter = $\frac{1}{3} \times 1 = \frac{1}{3}$

Money given to his son = $\frac{2}{5} \times 1 = \frac{2}{5}$

Remaining money given to the wife of his money =

$$1 - \left(\frac{1}{3} + \frac{2}{5} \right) \text{ [LCM of 3 and 5 is 15.]}$$
$$= 1 - \frac{1 \times 5}{3 \times 5} - \frac{2 \times 3}{5 \times 3}$$
$$= 1 - \frac{5}{15} + \frac{6}{15}$$
$$= 1 - \frac{5+6}{15}$$
$$= 1 - \frac{11}{15}$$
$$= \frac{1 \times 15}{1 \times 15} - \frac{11 \times 1}{15 \times 1}$$
$$= \frac{15}{15} - \frac{11}{15}$$
$$= \frac{15-11}{15}$$
$$= \frac{4}{15}$$


Money given to the wife of his money = \$10320

$\Rightarrow \frac{4}{15}$ of Mr Perseus's money = \$10320

Total money Mr Perseus has = $\frac{15}{4} \times \$10320$

= 15 \times \$2580

= \$38700



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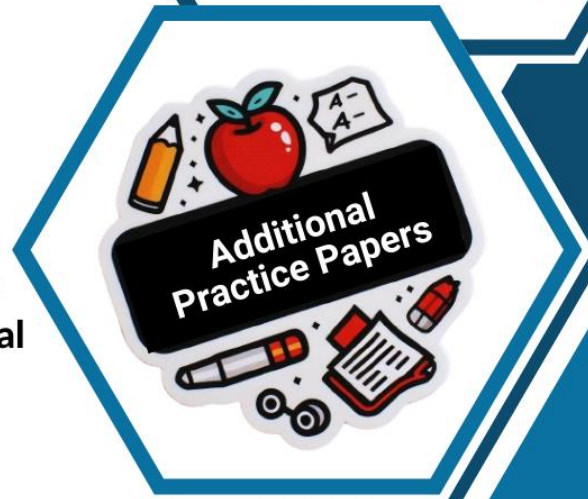
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