Fractions – mixed operations word problems

1. James walked $\frac{5}{6}$ of a kilometer then took a break before walking another $\frac{2}{3}$ of a kilometer. How far did James walk in all?

2. Emma harvested 6 baskets of blueberries from her backyard on Tuesday and 8 baskets on Wednesday. Each basket can hold $7\frac{1}{3}$ kilograms of blueberries. She sold $\frac{2}{3}$ of the blueberries harvested on Tuesday. How many blueberries did she have left?

3. Marcus bought 8 chocolate bars and gave $\frac{1}{4}$ of them to his younger brother. He also gave $\frac{2}{16}$ of the chocolate bars to his cousin Jonas. How many chocolate bars were left for him?

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4. Peter is making kites. Each kite uses $\frac{3}{4}$ of a meter of yarn and $\frac{52}{5}$ meters of thread. How many kites can he make out of 21 meters of yarn?

5. The price of toy cars is reduced by a quarter during the Thanksgiving Sale. What is the sale price if the original price was $20.00? How much will Moses pay for 3 toy cars?

6. The bookstore is delivering 9 boxes of books to the school. There are 30 books per box according to the receipt. How many books are there altogether? If $\frac{2}{5}$ of these are hardbound, how many softbound books are there?

Answers

1. $\frac{5}{6} + \frac{2}{3} = \frac{5+4}{6} = \frac{9}{6}$ (6 is the LCD)

    $\frac{9}{6}$ reduces to $1\frac{1}{2}$

    James walked $1\frac{1}{2}$ kilometers in total.

2. $7\frac{1}{3} = \frac{22}{3}$

    $6 \times \frac{22}{3} = 44$ kilograms of blueberries harvested

    $44 \times \frac{2}{3} = \frac{88}{3} = 29\frac{1}{3}$ kilograms of blueberries sold

    $44 - 29\frac{1}{3} = 14\frac{2}{3}$ kilograms of blueberries left for Emma.

3. $\frac{2}{16}$ reduces to $\frac{1}{8}$

    $8 \times (\frac{1}{4} + \frac{1}{8}) = 8 \times \frac{3}{8}$, (8 is the LCD)

    $8 \times \frac{3}{8} = 3$; Three chocolate bars were given to his brother and cousin.

    $8 - 3 = 5$; So, 5 chocolate bars were left for Marcus.

4. $21 \div \frac{3}{4} = 21 \times \frac{4}{3} = 28$

    Peter can make 28 kites with 21 meters of yarn.

5. $20 \times \frac{1}{4} = 5$, so the discount is $5. $20 − $5 = $15

    The sale price is $15.

    15 x 3 = 45, So Moses will only pay $45 for three toy cars.

6. 9 x 30 = 270 books in total

    $270 \times \frac{2}{5} = 108$ hardbound books

    270 − 108 = 162

    There are 162 soft bound books.

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