Apply Fraction Multiplication & Division

Multiply and divide fractions using different strategies in real-life contexts. Explore the relationship between multiplication and division of fractions. CCSS.MATH.CONTENT.5.NF.B.4.A | US_EN_05_MAT_C30_WS_m1

The neighbors love your costume. They request you to design some dresses for a retro-themed party.

1 You go to the market and buy material for 3 dresses. If each dress requires $\frac{2}{5}$ m of fabric, use multiplication and calculate the length of the cloth purchased. Write your answer in the boxes given below.

Length of cloth required for 1 dress = $\frac{2}{5}$ m

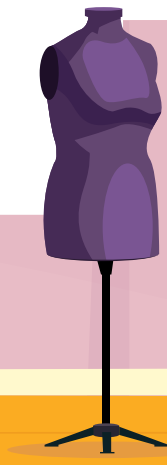
Length of cloth required for 3 dresses = $3 \times \frac{2}{5} = \frac{\square}{\square}$ m

2 You purchase extra fabric. 1 m of cloth costs $25, and the total length of the extra fabric is $\frac{8}{5}$ m. Help the manager calculate its cost. Write your answer in the boxes given below.

Total length of the extra fabric = $\frac{8}{5}$ m

Cost of 1 m of cloth = $25

Final price of the cloth = $25 \times \frac{\square}{\square} = \$\square\square$



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3 You give the tailor a rectangular piece of fabric of length $\frac{3}{4}$ m and width $\frac{2}{3}$ m. The tailor measures the area of the fabric by multiplying the length and width of the fabric. Circle the area of the fabric.

$\frac{3}{4}$ sq m

$\frac{1}{2}$ sq m

$\frac{6}{8}$ sq m

$\frac{3}{7}$ sq m

4 You buy some yarns from the market. They're sold in packs of $\frac{1}{2}$ kg. You require $4\frac{1}{2}$ kg of yarn. Divide $4\frac{1}{2}$ by $\frac{1}{2}$ to determine the number of packs you need. Check ✓ the correct box.

☐ 2 packets ☐ 4 packets ☐ 8 packets ☐ 9 packets

5 It requires $\frac{3}{5}$ m length of yarn to stitch 5 dresses. Use division to calculate the length of yarn required to stitch 1 dress. Write your answer in the boxes given below.

$$\frac{\square}{\square} \div \square = \frac{\square}{\square\square} \text{ m}$$

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The neighbors love your costume. They request you to design some dresses for a retro-themed party.

1 You go to the market and buy material for 3 dresses. If each dress requires $\frac{2}{5}$ m of fabric, use multiplication and calculate the length of the cloth purchased. Write your answer in the boxes given below.

Length of cloth required for 1 dress = $\frac{2}{5}$ m

Length of cloth required for 3 dresses = $3 \times \frac{2}{5} = \frac{\boxed{6}}{\boxed{5}}$ m

2 You purchase extra fabric. 1 m of cloth costs $25, and the total length of the extra fabric is $\frac{8}{5}$ m. Help the manager calculate its cost. Write your answer in the boxes given below.

Total length of the extra fabric = $\frac{8}{5}$ m

Cost of 1 m of cloth = $25

Final price of the cloth = $25 \times \frac{\boxed{8}}{\boxed{5}} = \$\boxed{4}\boxed{0}$

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- ☐ 2 packets
- ☐ 4 packets
- ☐ 8 packets
- ☑ 9 packets

5 It requires $\frac{3}{5}$ m length of yarn to stitch 5 dresses. Use division to calculate the length of yarn required to stitch 1 dress. Write your answer in the boxes given below.

$$\frac{3}{5} \div 5 = \frac{3}{2 \times 5}\ \text{m}$$