



Example

1-step problem sums involving multiplication of fractions

$\frac{3}{4}$ m of cloth is needed to make a bag. Rebecca wants to make 8 such bags. How many metres of cloth will she need?

$$\frac{3}{4} \text{ m} \times 8 = 6 \text{ m}$$

Answer: 6 m



Practice

- (a) A bottle can hold $\frac{5}{12}$ ℓ of juice. Marius has 7 such bottles. How much juice can all the bottles hold?

Answer: _____ ℓ

- (b) Maya used $\frac{7}{9}$ kg of sugar to bake a cake. She baked 12 cakes in all. How much sugar did Maya use to bake all the cakes?

Answer: _____ kg



Example

2-step problem sums involving multiplication of fractions

Helmi uses $\frac{5}{8}$ m of cloth to make a costume. A box can hold 6 such costumes. What is the length of cloth needed to make 4 such boxes of costumes?

$$\frac{5}{8} \text{ m} \times 6 = 3\frac{3}{4} \text{ m}$$

$$3\frac{3}{4} \text{ m} \times 4 = 15 \text{ m}$$

Answer: 15 m



Practice

- (a) A bottle can hold $\frac{7}{9}$ ℓ of water. A box can hold 12 such bottles. What is the volume of water in 3 such boxes of bottles of water?

Answer: _____ ℓ

- (b) Roshni used $\frac{3}{8}$ kg of flour to bake a chocolate cake. 4 customers ordered 9 chocolate cakes each from Roshni. What was the mass of flour used to bake all the chocolate cakes?

Answer: _____ kg

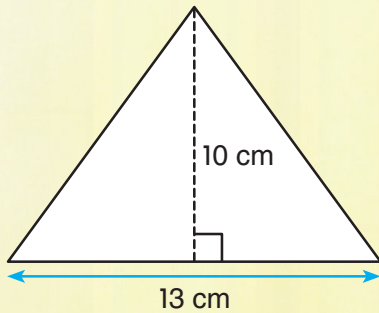


Example

Finding area of a triangle

Find the area of each triangle below.

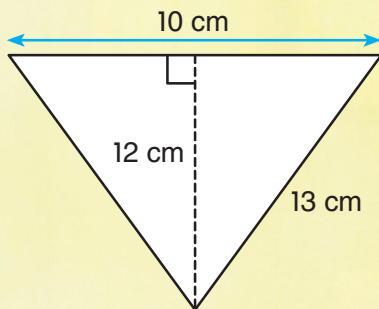
(a)



$$\frac{1}{2} \times 13 \times 10 = 65$$

Answer: 65 cm²

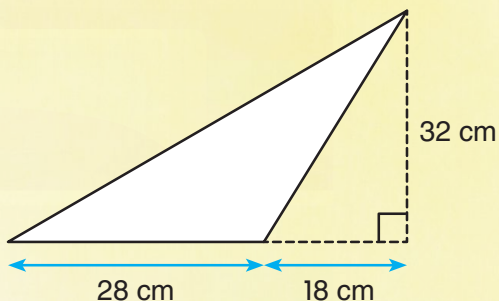
(b)



$$\frac{1}{2} \times 10 \times 12 = 60$$

Answer: 60 cm²

(c)



$$\frac{1}{2} \times 28 \times 32 = 448$$

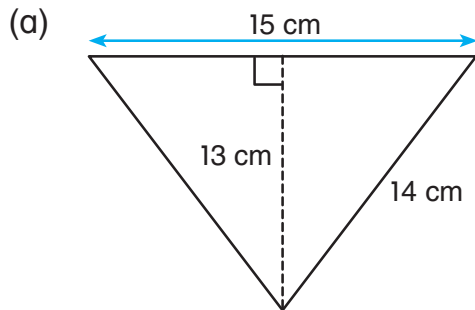
Answer: 448 cm²



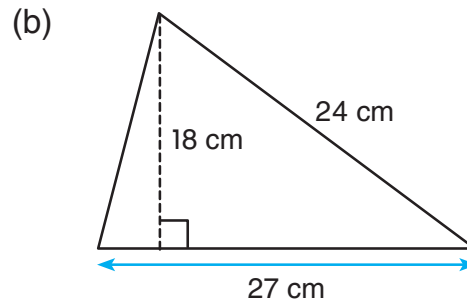


Practice

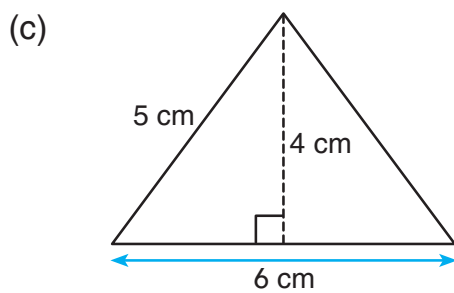
Find the area of each triangle below.



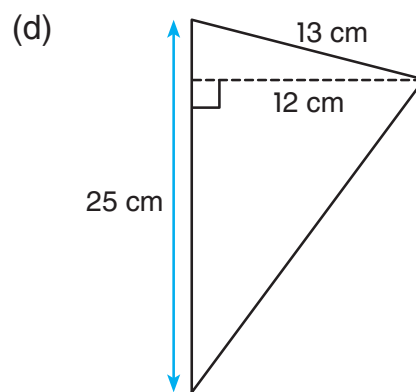
Answer: _____ cm^2



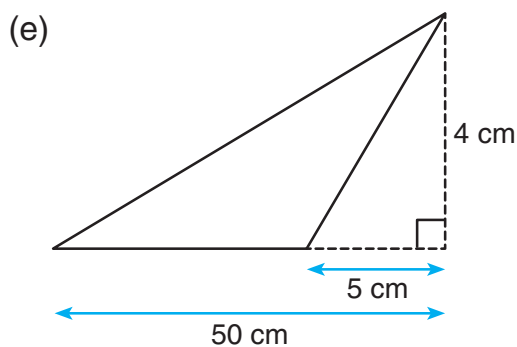
Answer: _____ cm^2



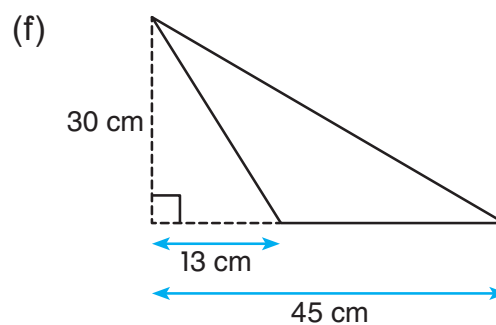
Answer: _____ cm^2



Answer: _____ cm^2



Answer: _____ cm^2



Answer: _____ cm^2

Singapore Maths Primary 5 (Grade 5)

Worksheet answers, with the key working for each question

Questions from Spartan Maths 5A, Level 90: Fractions (3) and Level 93: Area of Triangles. © Singapore Asia Publishers Pte Ltd and Mavis Tutorial Centre.

Page (90)10 1-step problem sums involving multiplication of fractions

(a) $\frac{5}{12} \ell \times 7 = \frac{35}{12} \ell = 2\frac{11}{12} \ell$

Answer: $2\frac{11}{12} \ell$

(b) $\frac{7}{9} \text{ kg} \times 12 = \frac{84}{9} \text{ kg} = 9\frac{1}{3} \text{ kg}$

Answer: $9\frac{1}{3} \text{ kg}$

Page (90)11 2-step problem sums involving multiplication of fractions

(a) One box: $\frac{7}{9} \ell \times 12 = 9\frac{1}{3} \ell$

3 boxes: $9\frac{1}{3} \ell \times 3 = 28 \ell$

Answer: 28 ℓ

(b) Number of cakes: $4 \times 9 = 36$

$\frac{3}{8} \text{ kg} \times 36 = \frac{108}{8} \text{ kg} = 13\frac{1}{2} \text{ kg}$

Answer: $13\frac{1}{2} \text{ kg}$

Page (93)5 Finding the area of a triangle

(a) $\frac{1}{2} \times 15 \times 13 = 97.5$ **Answer: 97.5 cm^2**

(b) $\frac{1}{2} \times 27 \times 18 = 243$ **Answer: 243 cm^2**

(c) $\frac{1}{2} \times 6 \times 4 = 12$ **Answer: 12 cm^2**

(d) $\frac{1}{2} \times 25 \times 12 = 150$ **Answer: 150 cm^2**

(e) Base = 50 cm - 5 cm = 45 cm

$\frac{1}{2} \times 45 \times 4 = 90$ **Answer: 90 cm^2**

(f) Base = 45 cm - 13 cm = 32 cm

$\frac{1}{2} \times 32 \times 30 = 480$ **Answer: 480 cm^2**

Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$. The height must be perpendicular to the base, so in (e) and (f) it falls outside the triangle.