1. Here are two proportional formula triangles

total

÷ ÷

mean ✕ n

÷ ÷

✕

Calculate the mean mass of the apples in a bag when

n, the number of apples = 10

total mass of the apples = 1830 grams

.... grams

2. Here are two proportional formula triangles

distance

÷ ÷

average speed ✕ time

÷ ÷

✕
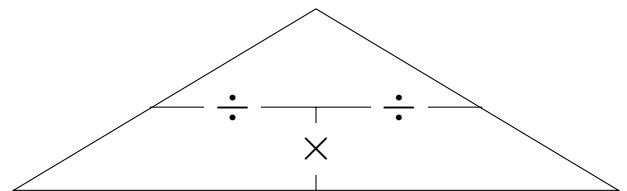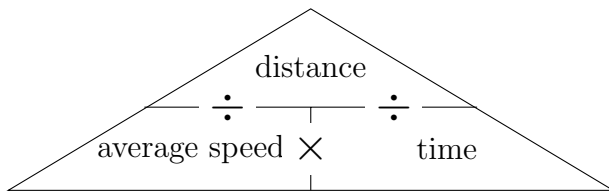
Calculate the average speed of a cyclist when

distance = 100 miles

time = 5 hours

.... mph

3. Here are two proportional formula triangles

area

÷ ÷

width ✕ height

÷ ÷

✕

Calculate the height of a rectangular bookmark when

area = 100 cm^2

width = 5 cm

.... cm

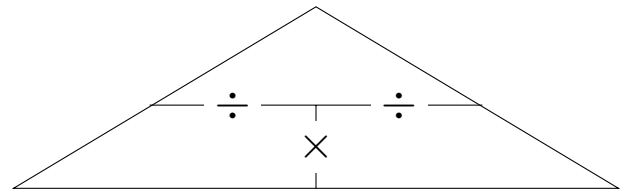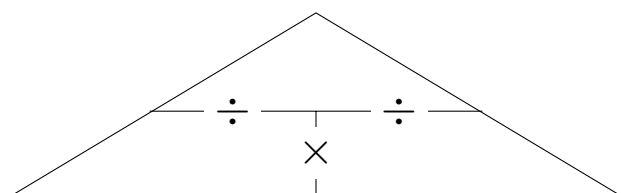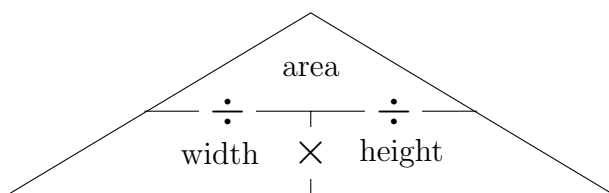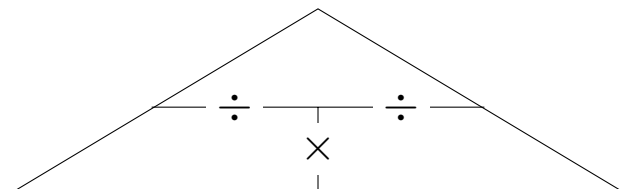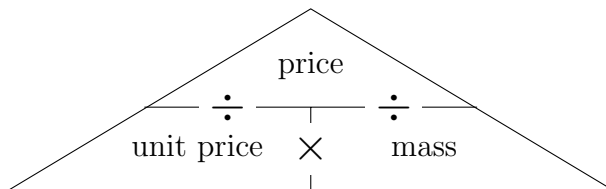4. Here are two proportional formula triangles
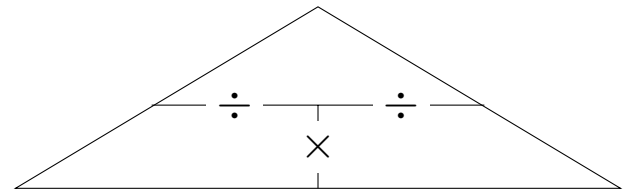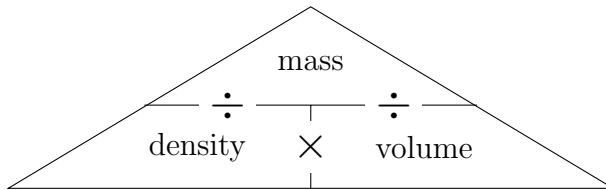
Calculate the density of a concrete block when

   mass = 1400 grams

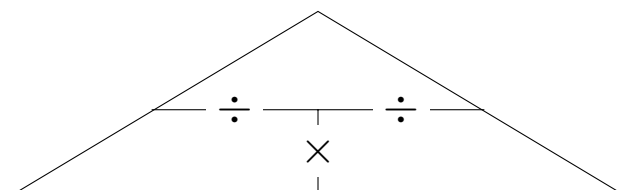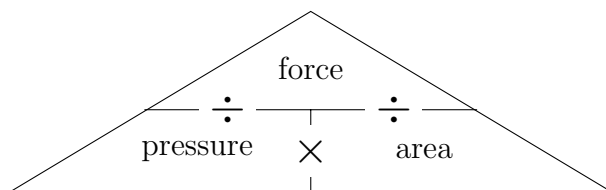   volume = 1000 cm^3

.... g/cm^3

5. Here are two proportional formula triangles

Calculate the unit price of wholemeal flour when

   price for a bag = £8.40

   mass of the flour in the bag = 10 kg

£..........per kg

6. Here are two proportional formula triangles

Calculate the area of an advertising board when

   force of wind in a light breeze = 3000 N

   pressure = 100 N/m^2

.... m^2