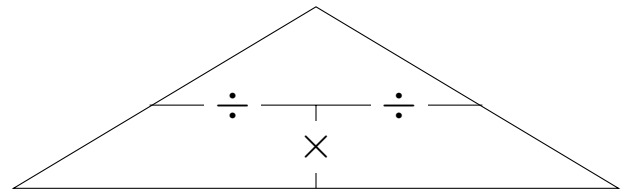
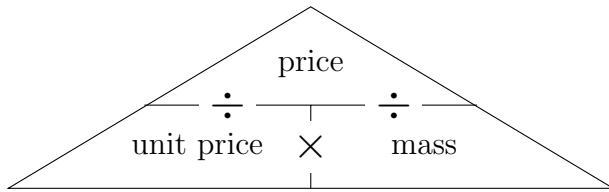


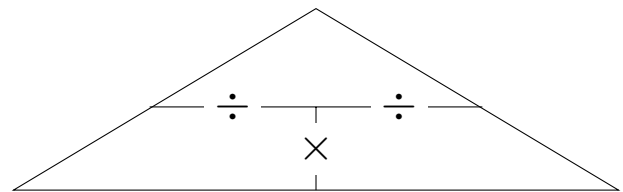
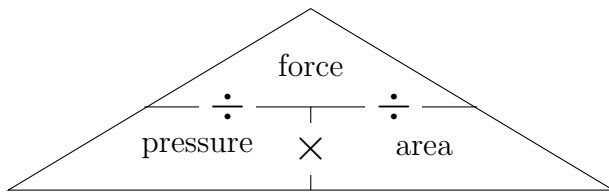
1. Here are two proportional formula triangles



Calculate the price of a leg of lamb when
 unit price = £12 per kg
 mass = 2 kg

£

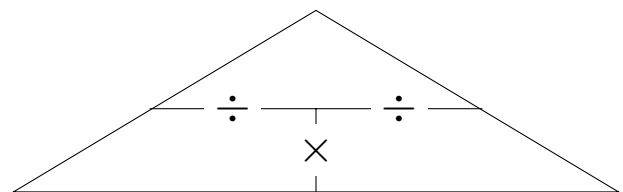
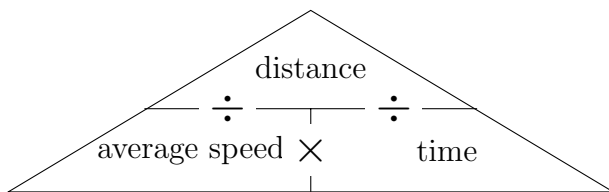
2. Here are two proportional formula triangles



Calculate the force due to a gale on a wind break
 area = 3 m²
 pressure = 250 N/m²

..... N

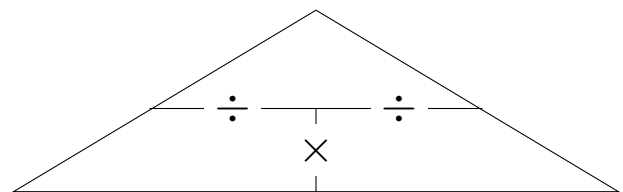
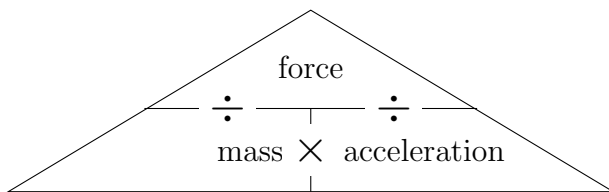
3. Here are two proportional formula triangles



Calculate the distance travelled by a runner when
 average speed = 4 m/s
 time = 1200 seconds (20 minutes)

..... m

4. Here are two proportional formula triangles

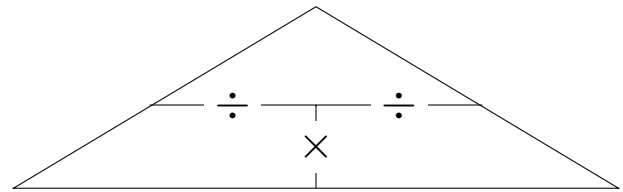
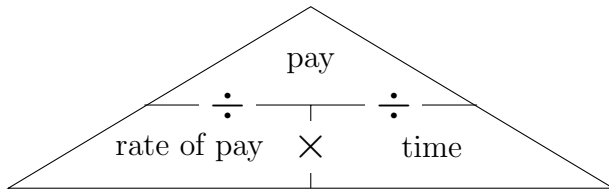


Calculate the force produced by a cheetah
 mass = 2000 kg
 acceleration = 3 m/s²

..... N

Turn over for more questions and answers

5. Here are two proportional formula triangles

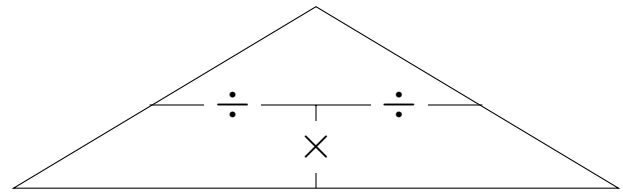
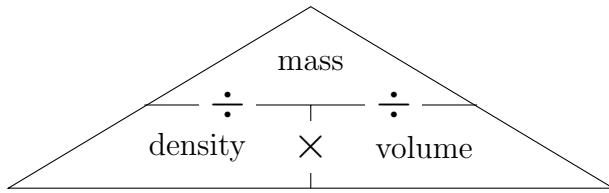


Calculate the M.P. Jeremy Hunt's pay when
 rate of pay = £2500 per hour
 time worked = 4 hours

source: <https://publications.parliament.uk/pa/cm/cmregmem/210920/210920.pdf>

£

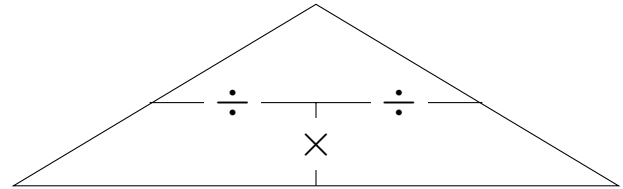
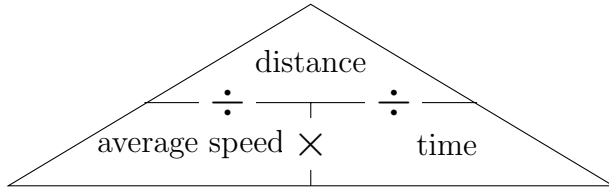
6. Here are two proportional formula triangles



Calculate the mass of a tub of honey when
 density = 1.42 g/cm³
 volume = 1000 cm³

..... grams

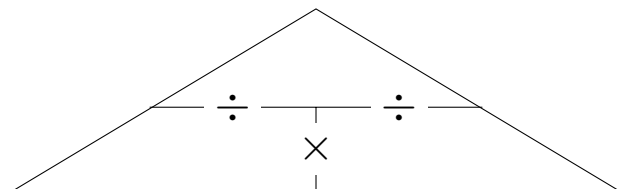
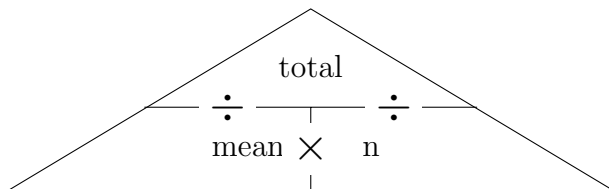
7. Here are two proportional formula triangles



Calculate the distance travelled by a high speed train
 average speed = 140 mph
 time = 2 hours

..... miles

8. Here are two proportional formula triangles



Calculate the total weight of 100 cherries when
 mean weight = 8 gram
 n, the number of cherries = 100

..... gram

Answers Q1: £24, Q2: 750 N Q3: 4800 metres, Q4: 6000 N

Q5: £10 000, Q6: 1420 grams, Q7: 280 miles, Q8: 800 grams