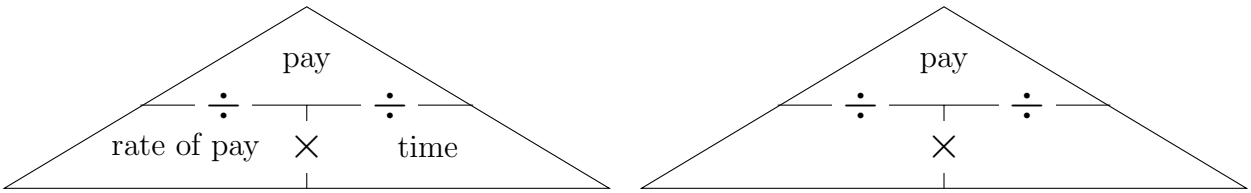
1. Here are two proportional formula triangles



(i) Write down a formula to calculate pay

pay = ...

(ii) Calculate the pay David Davis M.P. got for some speaking work he did.

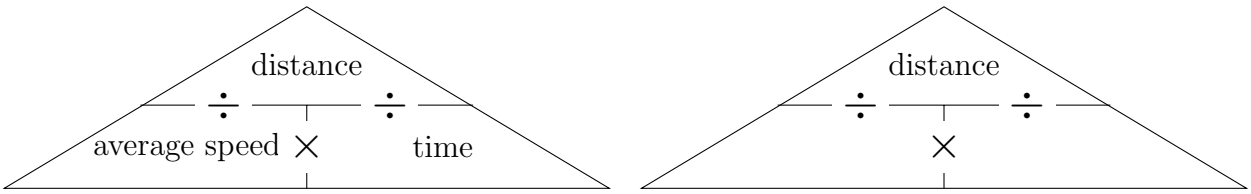
rate of pay = £3200 per hour

time worked = 5 hours

source: https://publications.parliament.uk/pa/cm/cmregmem/190204/190204.pdf

£ .....

2. Here are two proportional formula triangles



(i) Write down a formula to calculate distance

distance = ...

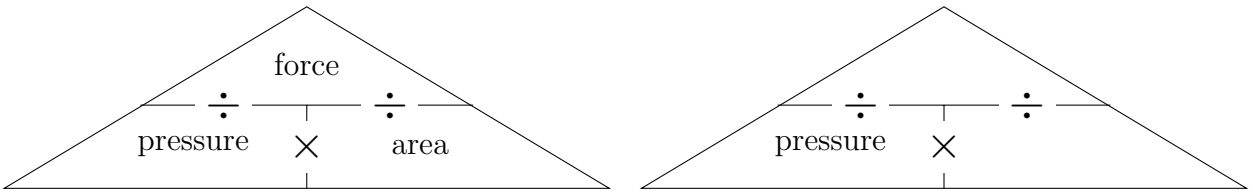
(ii) Calculate the distance travelled when

average speed = 50 mph

time = 2.5 hours

..... miles

3. Here are two proportional formula triangles



(i) Write down a formula to calculate pressure

pressure = ...

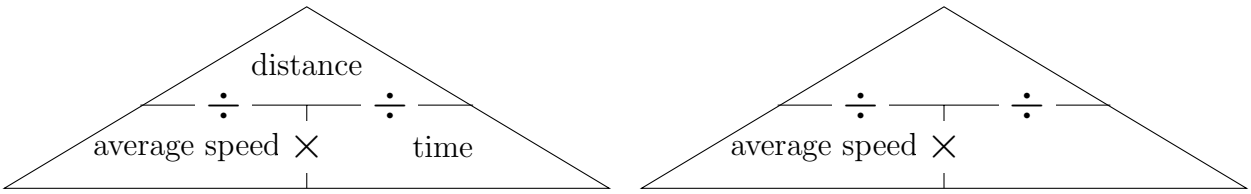
(ii) Calculate the pressure of a tank when

area = 3.2 m^2

force = 80 000 N

..... N/m^2

4. Here are two proportional formula triangles



(i) Write down a formula to calculate average speed

average speed = ...

(ii) Calculate the average speed when

distance = 579 miles

time = 15 hours

.....mph (miles per hour)

Answers

1. (i) rate of pay×time (ii) £16 000
2. (i) average speed×time (ii) 125
3. (i) $\frac{\text{force}}{\text{area}}$ (ii) 25 000
4. (i) $\frac{\text{distance}}{\text{time}}$ (ii) 38.6