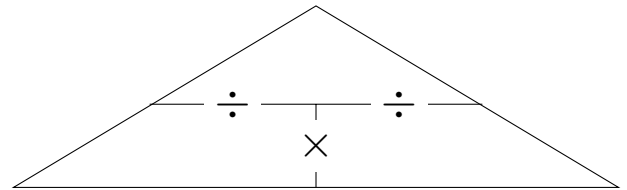
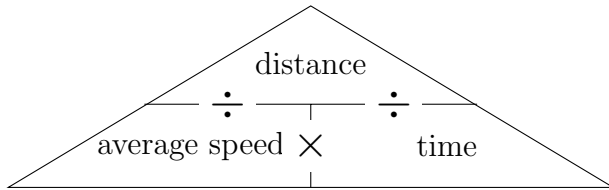


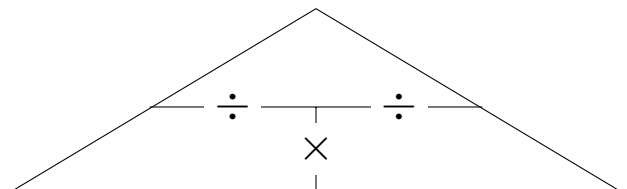
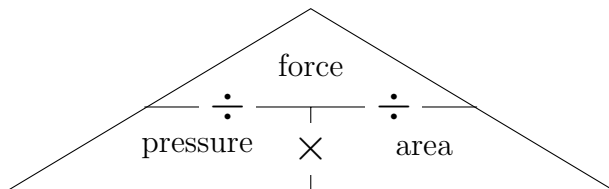
1. Here are two proportional formula triangles



Calculate the average speed when  
 distance = 168 miles  
 time = 4 hours

..... mph

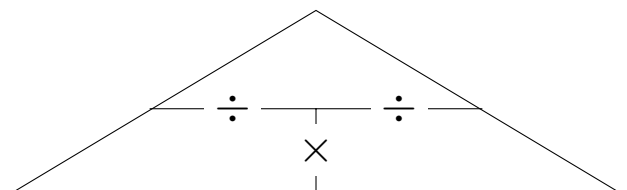
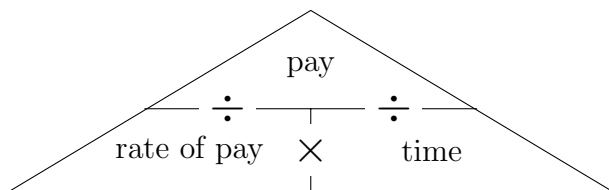
2. Here are two proportional formula triangles



Calculate the force of a breeze on a fence panel when  
 area = 2 m<sup>2</sup>  
 pressure = 3 N/m<sup>2</sup>

..... N

3. Here are two proportional formula triangles



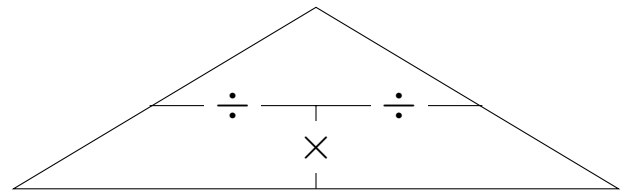
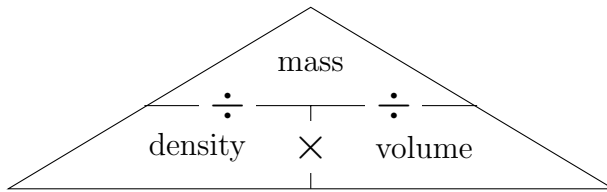
Calculate how much Kenneth Clark was paid for speaking.  
 rate of pay = £1625 per hour  
 time worked = 4 hours

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

£ .....

Turn over for more questions and answers

4. Here are two proportional formula triangles



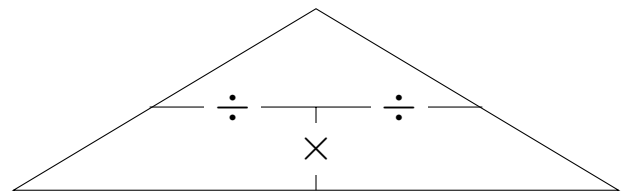
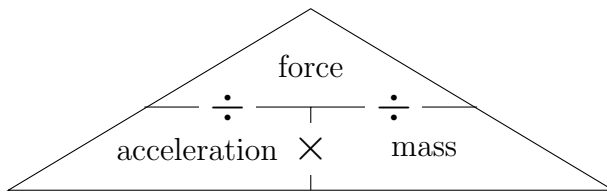
Calculate the volume of a log of larch when {larch is a type of wood}

mass = 1000 kg

density = 500 kg/m<sup>3</sup>

..... m<sup>3</sup>

5. Here are two proportional formula triangles



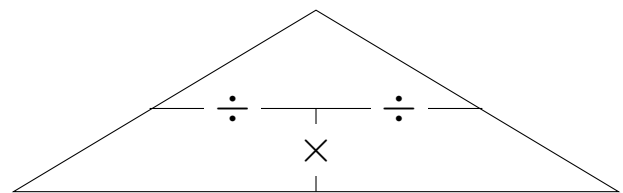
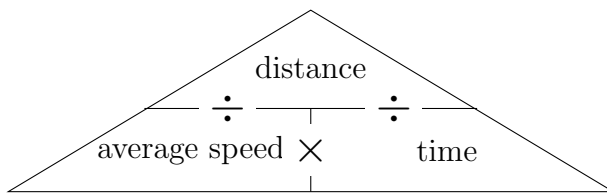
Calculate the acceleration of a Husky pulling a sledge when

mass = 20 kg

force = 60 N

..... m/s<sup>2</sup>

6. Here are two proportional formula triangles



Calculate the time Teo takes to run when

distance = 4000 metres

speed = 2 m/s

..... seconds

Answers (1) 42 (2) 6 (3) 6500 (4) 2 (5) 3 (6) 2000