

Doubling and halving strategies

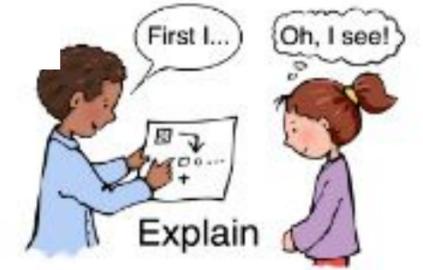
Worksheet

Mr Ward



Warm up - Doubling and halving numbers

Would you be able to explain what strategies you are using?



Double these numbers:

9

25

260

18

Halve these numbers:

24

32

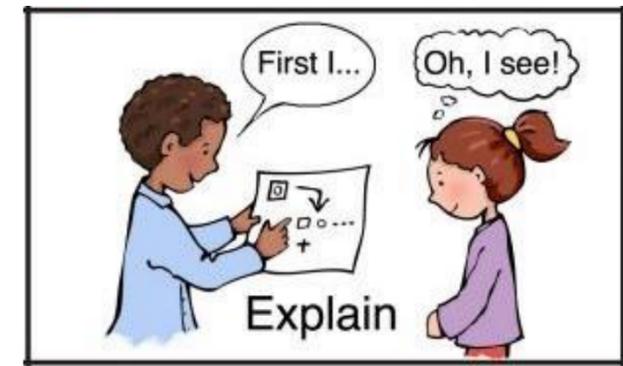
250

4500



Talk Task

Use doubling and halving strategies to complete the calculations.



16×4	$10\,000 \div 4$	130×8	$480 \div 8$
625×8	45×4	$720 \div 8$	$9000 \div 4$



Use mental strategies for doubling and halving to complete the calculations



$145 \div 5 = \text{My strategy!}$

$120 \div 15 = \text{My strategy!}$

$435 \div 5 = \text{My strategy!}$

$210 \div 35 = \text{My strategy!}$

$2350 \div 50 = \text{My strategy!}$

$550 \div 25 = \text{My strategy!}$



Challenge Slide - Reasoning



Strategy - Halve and then multiply by ten

Use the bar model to try to explain how this strategy works.
Complete the bar model using the three examples



$$24 \times 10 = 48 \times 5$$

$$6 \times 10 = 12 \times 5$$

$$9 \times 10 = 18 \times 5$$

