## Worksheet 18

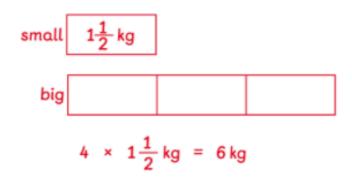
## Multiplying Mixed Numbers by Whole Numbers

Solve.



1 A small bag of pebbles weighs  $1\frac{1}{2}$  kg. A big bag of pebbles is 3 times as

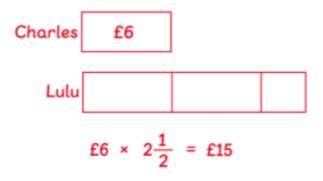
heavy as the small bag. What is the total weight of the two bags of pebbles?



The total of the two bags is 6 kg.



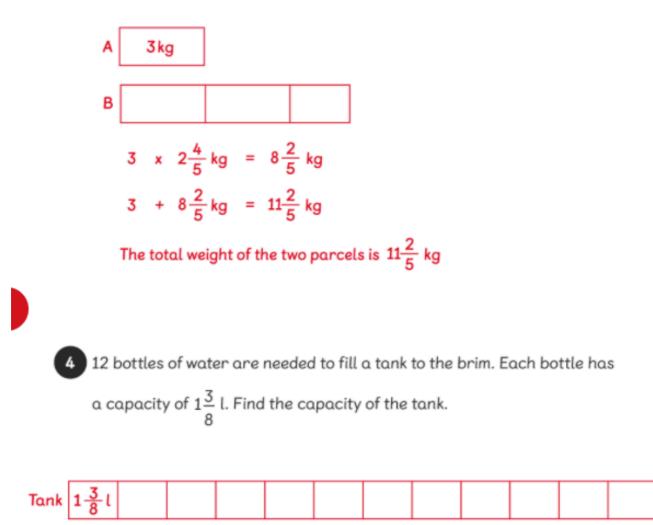
2 Charles' daily allowance is £6. Lulu's allowance is  $2\frac{1}{2}$  times as much as Charles' allowance. How much is Lulu's daily allowance?



Lulu's daily allowance is £15.

3 Parcel A weighs 3 kg. Parcel B weighs  $2\frac{4}{5}$  times as much as Parcel A.

What is the total weight of the two parcels?



$$12 \times 1\frac{3}{8}l = 16\frac{1}{2}l$$

The capacity of the tank is  $16\frac{1}{2}$  l

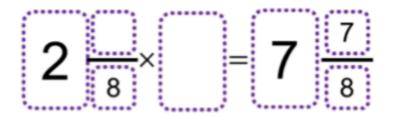
Jack runs  $2\frac{2}{3}$  miles three times per week.

Dexter runs  $3\frac{3}{4}$  miles twice a week.

Who runs the furthest during the week?

Explain your answer.

Work out the missing numbers.



Explain how you worked it out.

## Answers below:

Jack runs  $2\frac{2}{3}$  miles three times per week.

Dexter runs  $3\frac{3}{4}$  miles twice a week.

Who runs the furthest during the week?

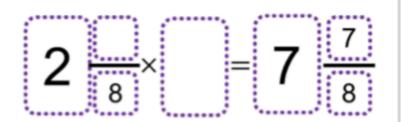
Explain your answer.

Jack runs 
$$2\frac{2}{3} \times 3 = 8$$
 miles.

Dexter runs  $3\frac{3}{4} \times 2 = 7\frac{1}{2}$ miles.

Jack runs further by half a mile.

Work out the missing numbers.



Explain how you worked it out.

Possible answer:  $2\frac{5}{8} \times 3 = 7\frac{7}{8}$ 

I knew that the multiplier could not be 4 because that would give an answer of at least 8. So the multiplier had to be 3. That meant that the missing numerator had to give a product of 15. I knew that 5 multiplied by 3 would give 15