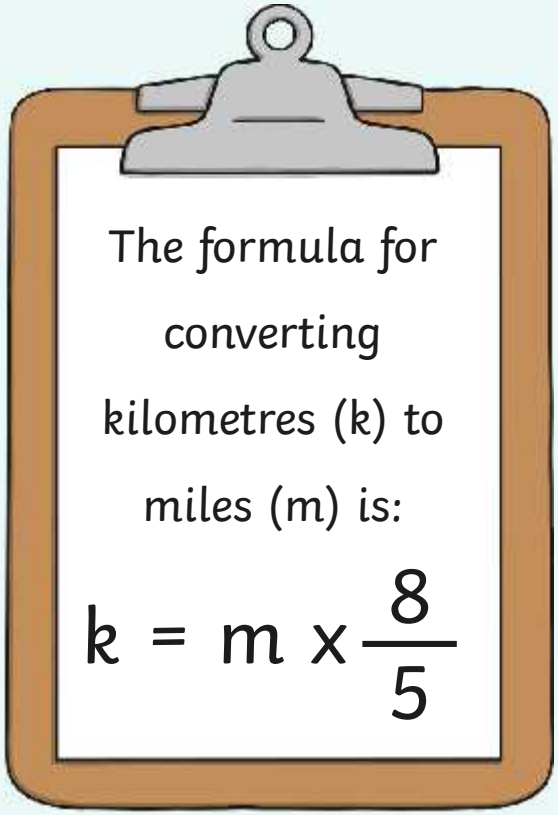
Year 6 Maths Mastery

Use Simple Formulae

Miles and Kilometres



a. Convert the following mileages to kilometres:

5 miles → 8 km

12 miles → 19.2 km

20 miles → 32 km

55 miles → 88 km

62.5 miles → 100 km

b. Convert the formula so it will convert kilometres to miles.

$m = k \times \frac{5}{8}$

Discuss your answers with a partner and test them using your new formula.

Hide Answers

Area of a Rectangle

$A = ab$

The area of a rectangle is expressed by this formula.

(A is the area, a and b are the length of the adjacent sides.)

Complete this table:

a (cm)	b (cm)	A (cm^2)
4	6	24
8	4	32
12	3	36
9	5	45
6	15	90

Create your own table for a partner to complete.

Hide Answers

Perimeter of a Rectangle

The perimeter of a rectangle is expressed by this formula.

(P is the perimeter, l and w are the length of the adjacent sides.)

$P = 2l + 2w$

Complete this table:

l (cm)	w (cm)	P (cm)
3	9	24
7	6	26
14	8	44
21	16	74
26	42	136

Create your own table for a partner to complete.

Hide Answers

Simple Formulae

In each of these formulae, calculate the value of y when x=6 and of x when y = 6.

Formula	x = 6	y = 6
y = x + 2	y = 8	x = 4
y = 2x - 4	y = 8	x = 5
y = 3 + 3x	y = 21	x = 1
2y = x + 8	y = 7	x = 4

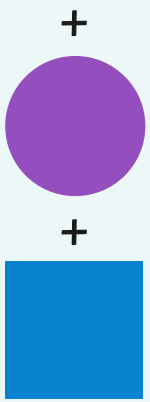
Challenge a partner to find different values of y or x when using different values. Try your own formulae.

Hide Answers

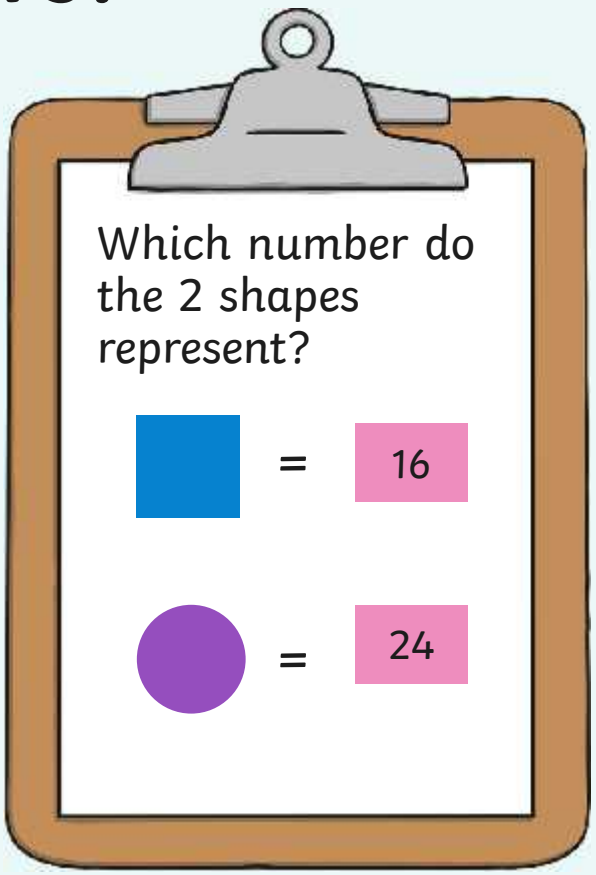
What numbers?

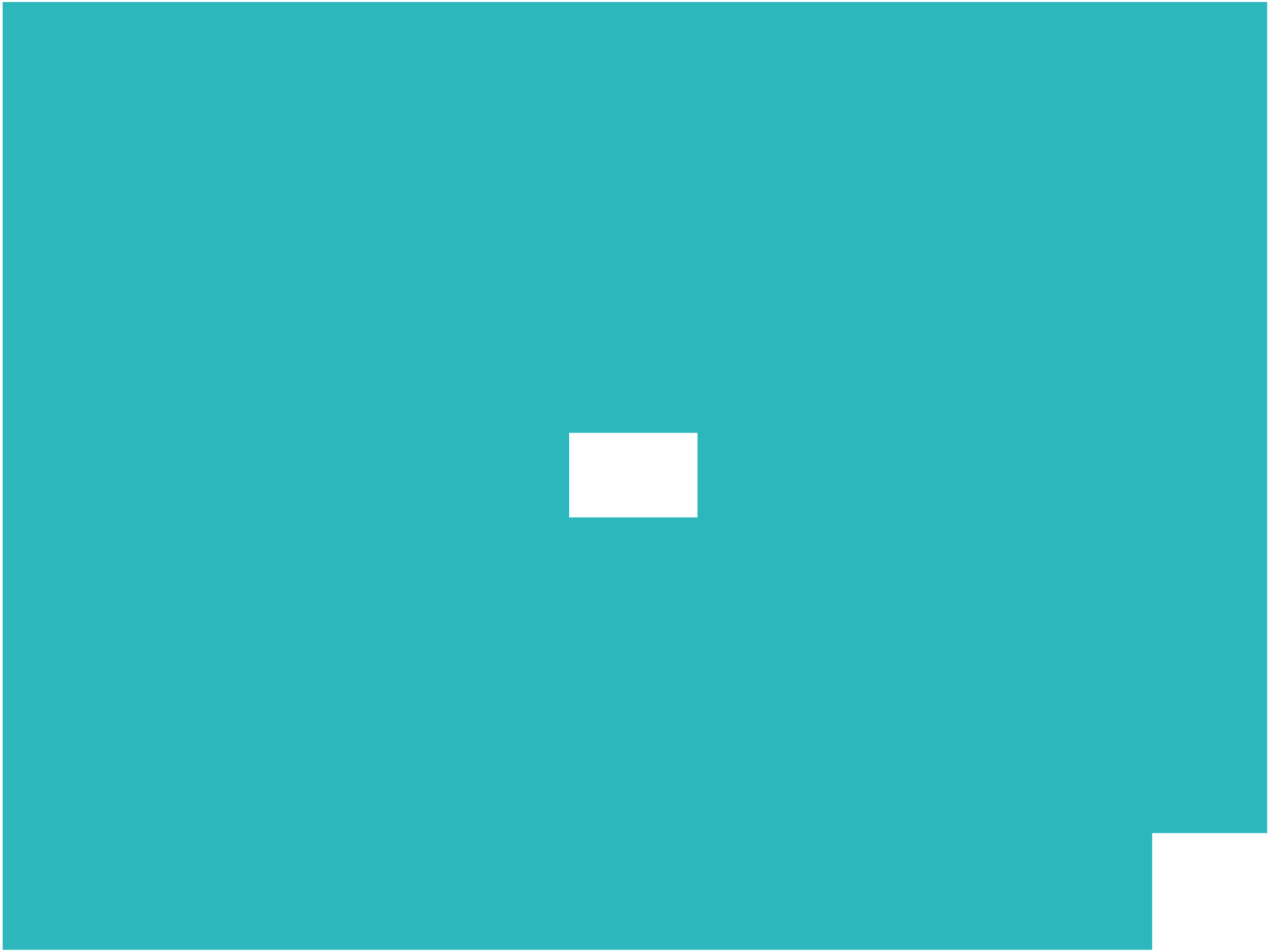
Each shape stand for a number.

= 80



= 56



Explain how you found the answer to a partner and then create your own puzzle for them to solve.

Hide Answers