Percentages: of a quantity

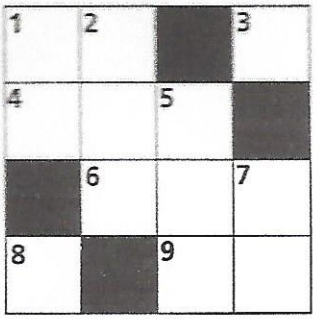
26

1 Kitbits Company makes *Police* sets.
There are 200 police in a set.
How many police
(a) have helmets
(b) have caps
(c) are dog handlers
(d) are on horseback?

Police set
50% have helmets
25% have caps
10% are dog handlers
1% are on horseback

2 Copy this cross number puzzle.

(a) Complete the puzzle using these **Across** clues.
1 50% of 148
3 75% of 8
4 75% of 300
6 25% of 1216
8 1% of 400
9 10% of 250



(b) Check using these **Down** clues.
1 25% of 288
2 50% of 846
3 1% of 600
5 10% of 5020
7 75% of 60
8 10% of 40

3 In the *Traffic* set, 20 of the police, that is 50% of them, are driving cars.
10% of the police are driving motorbikes. How many are motorbike drivers?

Problem solving

Percentages: based on 10%

27

1 Kitbits Company makes *Hospital* sets.
There are 120 people in the *Staff* set.
10% are doctors, 20% are auxiliaries, 40% are patients and the rest are nurses.
How many are **(a)** doctors **(b)** auxiliaries **(c)** patients **(d)** nurses?

2 In a set of 140 hospital vehicles, 15% are paramedic units, 30% are patient taxis and the rest are ambulances.
How many are **(a)** paramedic units **(b)** patient taxis **(c)** ambulances?

3 Find **(a)** 10% of 500 **(b)** 40% of 240 **(c)** 15% of 3120 **(d)** 15% of 4580

4 Of the 9460 kits made, 15% were *Staff* sets and 35% were *Vehicle* sets.
How many kits were **(a)** *Staff* sets **(b)** *Vehicle* sets?

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