## HOME EXERCISE 6

## Set out carefully all appropriate working.

Do not use a calculator in questions $1,2,3$ or 4 .
Use a calculator in questions 5 and 6.

1. Evaluate: $\quad \frac{4}{5} \div \frac{6}{7}$
2. Evaluate:
$16 \cdot 3 \sqcap 2 \cdot 6 \sqcap 3$
3. The number in the square is the sum of the numbers in the circles on either side of it.

For example,

since $-3+5=2$, then $x=2$.


Find the values of $\mathrm{a}, \mathrm{b}$ and c in the triangle.
4. The normal price of a toaster is $£ 30$.

In a sale the price is reduced to $£ 24$.
Calculate the percentage reduction in the sale.
5. A car is allowed to travel at a maximum speed of 70 miles per hour on the motorway.

A driver left on a 65 mile motorway journey at 1530 , arriving at 1625 .
Did the driver break the law?
6. The triangles shown are right-angled.
(a)

(b)
(6)

Calculate the missing lengths, correct to one decimal place.

