## Your Turn

1. Share each amount in the given ratio.
a. $£ 40$ in the ratio $1: 3$
$1+3=4$
$40 \div 4=10$
$1 \times 10=£ 10$
$\mathbf{3 \times 1 0 = £ 3 0}$
b. $£ 20$ in the ratio $2: 3$
$2+3=5$
$20 \div 5=4$
$2 \times 4=£ 8$
$\mathbf{3 \times 4 = £ 1 2}$
c. $£ 56$ in the ratio $2: 5$
$2+5=7$
$56 \div 7=8$
$2 \times 8=£ 16$
$\mathbf{5 \times 8 = £ 4 0}$
d. 24 p in the ratio $5: 3$
$5+3=8$
$24 \div 8=3$
$5 \times 3=15 p$
$3 \times 3=9 p$
2. Share each amount in the given ratio.
a. 48 kg in the ratio $1: 3: 2$
$1+3+2=6$
$48 \div 6=8$
$1 \times 8=8 \mathrm{~kg}$
$3 \times 8=24 \mathrm{~kg}$
$2 \times 8=16 \mathrm{~kg}$
b. $£ 30$ in the ratio $4: 3: 3$
$4+3+3=10$
$30 \div 10=3$
$4 \times 3=£ 12$
$3 \times 3=£ 9$
$3 \times 3=£ 9$
c. 99 g in the ratio $5: 2: 4$
$5+2+4=11$
$99 \div 11=9$
$5 \times 9=45 \mathrm{~g}$
$2 \times 9=18 \mathrm{~g}$
$4 \times 9=36 g$
d. 64 cm in the ratio $3: 1: 4$

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\begin{aligned}
& 3+1+4=8 \\
& 64 \div 8=8 \\
& 3 \times 8=24 \mathrm{~cm} \\
& 1 \times 8=8 \mathrm{~cm} \\
& 4 \times 8=32 \mathrm{~cm}
\end{aligned}
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3. Alex is 5 years old and Becky is 7. They are going to share $£ 60$ in the ratio of their ages. Work out how much each child gets.
$5+7=12$
$60 \div 12=5$
$5 \times 5=£ 25$ for Alex
$7 \times 5=£ 35$ for Becky
4. A box contains 120 sweets. Ali, Billy and Caleb share the sweets in the ratio 4:7:1. Work out how many more sweets Billy receives than Ali.
$4+7+1=12$
$120 \div 12=10$
Ali gets $4 \times 10=40$ sweets
Billy gets $7 \times 10=70$ sweets
70-40 = $\mathbf{3 0}$ sweets
5. The angles in a quadrilateral are in the ratio 3:3:4:5. Work out the size of the largest angle. Hint: angles in a quadrilateral add up to $360^{\circ}$.

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3+3+4+5=15
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$360 \div 15=24$
The largest angle will be given by the 5 part in the ratio.
$5 \times 24=120^{\circ}$

## Challenge

Carla and Devon share some money in the ratio 7:3. Given that Devon gets $£ 15$, work out how much Carla gets.
Devon gets 3 parts, which is $£ 15$.
We can find 1 part by dividing 15 by 3 .
$15 \div 3=£ 5$
Carla gets 7 parts.
$7 \times 5=£ 35$

