

Let's Practise

Page	Answers
189	(a) 32      (b) 99      (c) 40      (d) 0 (e) 64      (f) 7      (g) 83      (h) 91

Let's Try It

Page	Answers
191	(a) 10      (b) 28      (c) 6      (d) 48      (e) $\frac{24}{10}$ (f) 42      (g) 21      (h) 4      (i) 190      (j) 750

Maths Challenge % is  $\frac{\text{Part}}{\text{Whole}} \times 100$

Page	Answers
191	<p>(1) 16% <math>\rightarrow \frac{4}{25} \times 100 = 4 \times 4 = 16\%</math> are blue Cars.</p> <p>(2) 44% <math>\rightarrow \frac{88}{200} \times 100 \Rightarrow</math> Simplify: <math>\frac{44}{100} \times 100 = 44\%</math> are girls</p> <p>(3) 48% females <math>\leftarrow \frac{24}{50} \times 100</math></p> <p>(4) 240 <math>80\% \text{ of } 300 = \frac{80}{100} \times 300 = 80 \times 3 = 240</math> thought it was safe</p>

191 a)  $\frac{20}{100} \times 50 = 2 \times 5 = 10$

e)  $\frac{12}{100} \times 20 = \frac{12 \times 2}{10} = \frac{24}{10} = 2\frac{4}{10}$

b) can be solves  $\Rightarrow 25\% = \frac{1}{4}$  So  $\frac{1}{4}$  of 16 =  $\frac{16}{4} = 4$

175	(2) (a) 15%      (b) 8%      (c) 10%      (d) 18%      (e) 25%      (f) 67%
-----	---

177	(4) (a) seven per cent (d) fifty per cent (g) one hundred per cent	(b) eleven per cent (e) forty-four per cent (h) zero per cent	(c) thirty-six per cent (f) ninety-two per cent
	(5) (a) 13% (e) 13%	(b) 59% (f) 81%	(c) 46% (g) 99%
		(d) 77% (h) 63%	

178	(6) (a) 24	(b) 48	(c) 120	(d) 144	(e) 12	(f) 180
	(7) (a) 3	(b) 30	(c) 300	(d) 15	(e) 150	(f) 75
	(8) (a) 50	(b) 25	(c) 100	(d) 125	(e) 250	(f) 375
	(9) (a) 42	(b) 210	(c) 126	(d) 105	(e) 336	(f) 4.2

6) d)  $\frac{60}{100} \times 240$  OR  $60\% = \frac{3}{5}$   $\frac{3}{5} \times 240 = 48 \times 3 = 144$

$6 \times 24 = 144$

7) f) 25% of 300  $25\% = \frac{1}{4}$  so can half twice

$\frac{1}{2}$  of 300 = 150 + half again (half of 150 = 75)

OR  $\frac{1}{4} \times 300 = \frac{300}{4} = 75$  OR  $\frac{25}{100} \times 300 = 25 \times 3 = 75$