- 1. Solve:
- 2. (a)
- (b) 3x 5 = 9
- (c) $\frac{x}{3} = \frac{2}{5}$ (d) 5(x+2) 3(x-5) = 4

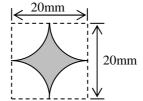
- $\frac{x}{6} \frac{x}{5} = 1$
- 3. Expand and collect like terms:
 - 2y(y+3) + 5(7-3y)
- 6(n-3)-5(n-2)

- Factorise fully: 4.
 - 15x 20y(a)
- $3m^2 + 6m$ (b)
- (c) 7 14y

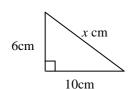
- 5. Simplify:
 - 16:22 (a)
- 16kg: 800g (b)
- 0.03:0.2(c)
- Find the area and perimeter of each shape (to 1 decimal place) 6.

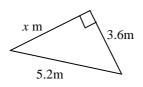


(b)

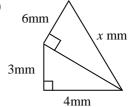


7. Find the value of *x* correct to one decimal place:





(c)



- 8. Express each of these as a simple rate:
 - 200 km in 8 hours
- (b) 1000 revolutions in 2 minutes
- 9. Water flows into a tank at the rate of 15L/h. How long will it take to fill a tank which holds 750L? (a)
 - Divide \$20 in the ratio 2:3 (b)
 - Alex has saved \$50. His savings increase in the ratio 5:4 in the following week and then in the ratio 6: 5 the next week. How much does he have at the end of those two weeks?
- 10. If 5cm represents 1km, what length would be used to represent:
 - 3km
- (b) 5km
- (c) 200m
- 11. Using a scale of 1:500, what actual lengths would each of these lines represent?
 - 4cm (a)
- 6.5cm (b)
- 3.25cm (c)