

HOMEWORK 9 Term 2 Sheet 2 advanced

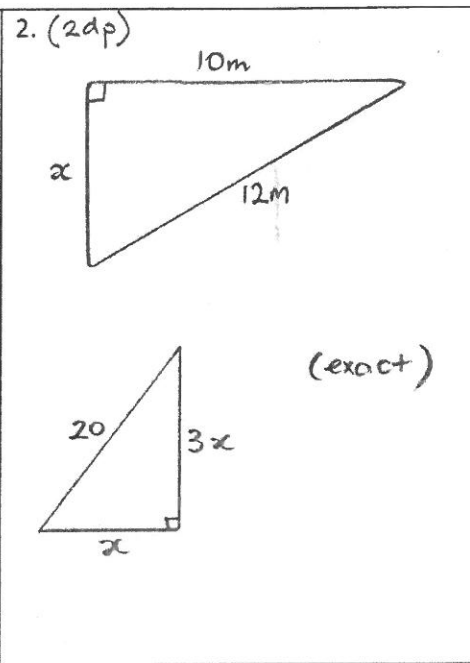
1. Expand & Simplify:

$$2(3-4x) - 3(5-2x)$$

=

$$(6x+5)(3x-2)$$

=



3. Simplify:

$$\sqrt{72} + \sqrt{50}$$

$$2\sqrt{3} \times 3\sqrt{6}$$

$$\frac{2\sqrt{2}}{\sqrt{5}}$$

- 4.
- 8 13 4 5 9 2 8
- $Q_1 =$
- $Q_2 =$
- $Q_3 =$
- $IQR =$
- $R =$
- $\bar{x} =$

5. My average after 6 games is 12 goals. If I only shoot 5 goals in my next game, what will my new average be?

6.

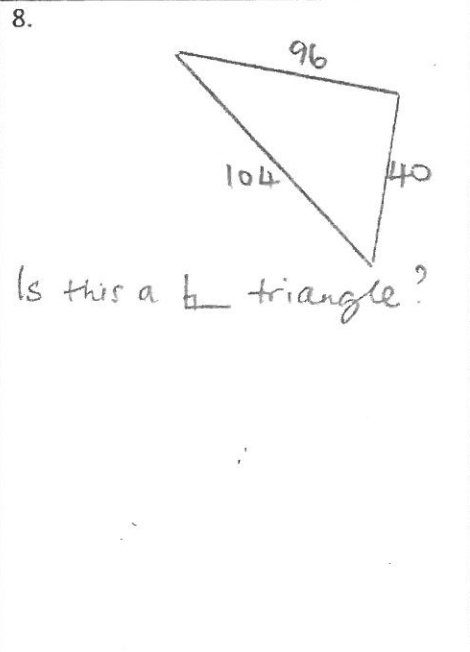
stem	leaf
2	0 4
3	3 3 5
4	2 4 5 8
5	0 1 1 7
6	5 9 9

$\bar{x} =$

median =

range =

7. In a city of 4050 people, 45 are sampled of which 20 are redheads. Estimate ($\pm 5\%$) how many redheads in the whole city



9. Simplify:

$$a^2 \times a^5 =$$

$$\frac{m^9}{m^3} =$$

$$(e^4)^6 =$$

$$\frac{2a^2 \times (3a^2)^3}{(3a^3)^2}$$

=