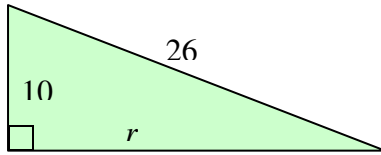
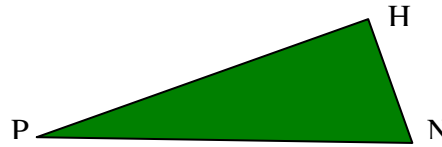


YEAR 8 BASIC ASSESSMENT

1.a) Find the value of r using Pythagoras's Theorem.



b) In the right-angled triangle HNP, $HN = 27$ cm and $NP = 42$ cm. Calculate the length of HP correct to 2 decimal places.



2. Write these recurring decimals as common fractions:

a) $0.545545\dots = \frac{\quad}{\quad}$

b) $0.4646\dots = \frac{\quad}{\quad}$

c) $0.231231\dots = \frac{\quad}{\quad}$

3. Paint costs \$35.24 per litre. 0.5 litres are used per square metre. How much will it cost to paint 104 square metres?

4. Decrease:

a) 130 by 10%

b) \$84 by 27%

c) \$137 by 37%

5. Solve the equations:

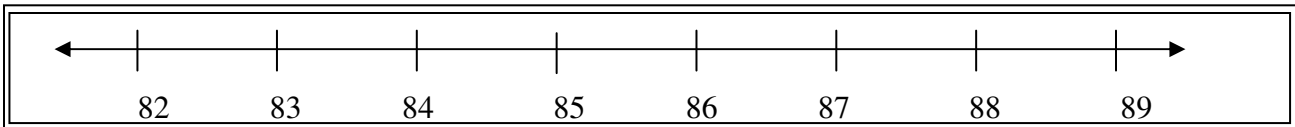
a) $\frac{x+5}{2} = \frac{3x+7}{4}$

b) $2m + 3(2m - 7) = 4 + 5(m + 2)$

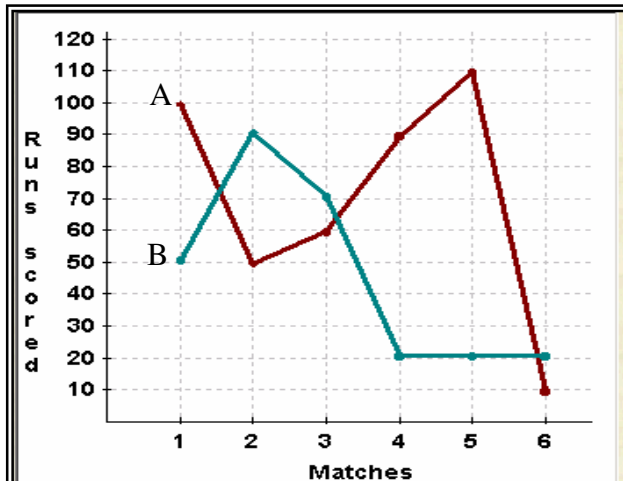
c) $3x + 4 < -2$

d) $\frac{5-x}{3} \geq -8$

6. Mark on the number line the points x such that $\{x : 83 < x < 88; x \text{ an integer}\}$.



7.



The graph shows the scores of two batsmen

A) Michael Devan , B) Lance Kusner

in 6 cricket matches

What are the median, mode and range for these players?