**1. Pythagoras’ Theorem (2)**  
Find the length of the hypotenuse.  
\[ x^2 = 15^2 - 4^2 \]  
\[ x = \sqrt{197} \]

**2. Fractions (3)**  
a) Divide and simplify  
\[ \frac{7}{8} \div \frac{1}{4} \]  
\[ = \frac{7}{2} \]  
b) Change to an improper fraction  
\[ 4 \frac{3}{5} \]

Find the mean, median and mode for:  
123, 345, 126, 379, 156, 180, 204

**4. Trigonometry (2)**  
\[ \theta = \frac{12}{37} \]  
\[ \theta = -1 \left( \frac{12}{37} \right) \]  
\[ \theta = \text{not valid} \]

**5. Expanding (4)**  
Expand these brackets  
a) \(-3(x - 8)\)  
b) \(3z(2z + 4y)\)

**6. Geometry- (1)**  
Show a pair of corresponding angles

**7. Indices (2)**  
Simplify \(8x^{11} + 2x^5\)

**8. Financial Arithmetic (3)**  
a) 10\% of $4.80  
b) 20\% of $4.80  
c) 5\% of $4.80

**9. Measurement (2)**  
Find the volume of this prism  
Area of base: 12 cm²

**10. Congruent triangles (7)**  
a) Name the four tests for congruency  
1.  
2.  
3.  
4.

b) State the test which applies for the following pair of congruent triangles and find the missing value.

\[ \begin{align*}  
30^\circ & \ 12 \ 
\end{align*} \]