Student Name _____

Eastern Goldfields College
Unit 3 Essential Mathematics 2016
Mental Skills Test 2

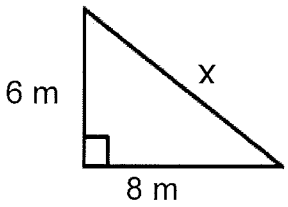
Time: 10 minutes Total Marks: 15 marks

CALCULATORS NOT ALLOWED

1. Complete the formula:

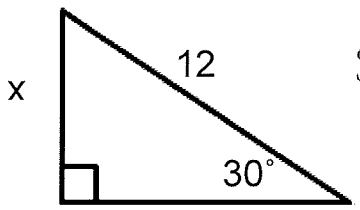
Cos(θ) = $\frac{\text{adjacent}}{\text{hypotenuse}}$ ✓

2. Calculate the value of x



$x = 10$ m ✓

3. Would you use Sin, Cos or Tan to solve for x?



Sin ✓

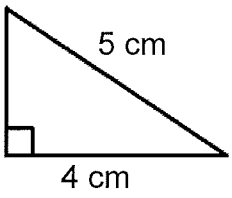
4. Name a real life application for a scale drawing

map, house plan ✓

5. Draw a plan for the shape from question 11.

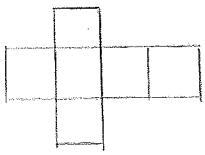
✓

6. Calculate the value of x



$x = 3$ ✓

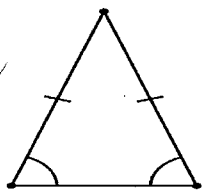
7. Draw a possible net for a cube



✓ others

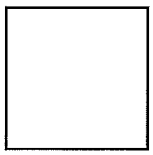
8. Name this type of triangle

Isosceles triangle ✓



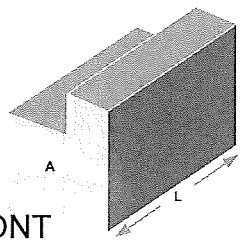
9. $12m^3$ = 12000 ✓ L

10. Calculate the area of this square in m^2

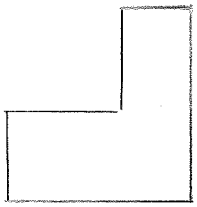


$10000 m^2$ ✓

11. Draw a front elevation for this shape



FRONT



✓

12. How many faces does a pentagonal prism have?

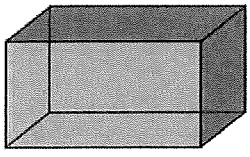
7 ✓

13. The Empire State building is 443m tall in real life but a scale drawing is 44.3cm. What was the scale used?

1 : 1000 ✓

14. A map scale is 1 : 2000. How long in real life is a 5 cm line on the drawing? map

10000 cm or 100 m ✓

15. How many edges does this 3D shape have?

12 ✓