**trigonometry**

**B**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

1. Calculate the length of the missing side:

x

40º

8m

x

a) b) c)

15m

x

60º

12m

50º

2. Calculate the size of the missing angle:

6m

a) b) c)

xº

7m

xº

12m

xº

8m

5m

18m

3. Find 3 different right angles triangles with a missing angle of 35º.

4. i) Explain what is wrong with the following solution:

sin 40º = O = 7

H x

x = sin 40º 7

x = 4.499513268 …

x = 4.5m (to 1dp)

Calculate the length of the missing side:

x

40º

7m

x

40º

7m

**O**

**H**

ii) Find the correct solution

5) A ship leaves port and sails due South for 5km. It then sails due East for 8km.

What is the bearing of the ship from the port?

|  |  |  |  |
| --- | --- | --- | --- |
| Qu |  | ☺ | ☹ |
| 1, 3 & 4 | I can use trigonometry to find the missing side. |  |  |
| 2 | I can use trigonometry to find the missing angle. |  |  |
| 5 | I can use trigonometry to solve problems involving bearings. |  |  |

|  |
| --- |
| Top tips I must remember for the exam: |
| ☺  ☺  ☺ |
| Types of questions I need to practise more: |
| ☺  ☺  ☺ |