This week we are recapping on 2D and 3D shapes.

LO: To calculate angles (bronze)

1

a 40°

$a = \boxed{}$ °

39° d

$d = \boxed{}$ °

2

145°
w

y
240°

$w = \boxed{}$ °

$y = \boxed{}$ °

3

Tick the pairs of angles that are vertically opposite.

☐   ☐   ☐

☐   ☐

4

Dora draws two angles.

AB is a straight line.

164°   26°   B

A

Do you agree with Dora? _____

Explain your answer.

5 Work out the size of angle y.

190°
48°   65°
y

$y = \boxed{}$ °

6 Use the digit cards to fill in the missing angles.

3   0   7

8☐ °

☐0 °

☐0 °

7 Annie is working out the size of angle f.

Angle f is equal to 79° because vertically opposite angles are equal

79°

f

Do you agree with Annie? _____

Explain your answer.

This week we are recapping on 2D and 3D shapes.

LO: To calculate angles (silver)

1

117°   c

c = [ ] °

f

132°

f = [ ] °

2 a)

130°
m
70°

m = [ ] °

b)

n
79°
175°

n = [ ] °

.

3 If angle a measures 86°, what is the size of angle b?

b
a   c
d
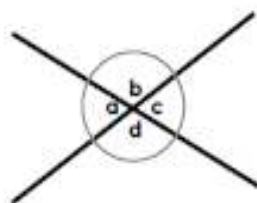
Not to scale   PS

4 Sandy says:

I think that angle c measures 114°.

123°
a   c
d
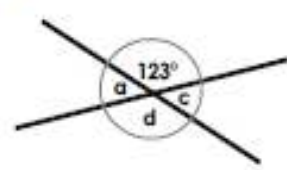
Is Sandy correct? Explain why.

Not to scale   ₹

5 Work out the sizes of the unknown angles.

a)

k   k
k   k

k = [ ] °

b)

g   g
g   g
g   g

g = [ ] °

6 Work out the sizes of the unknown angles.

Give reasons to support your answers.

a)

b
b   b

b = [ ] ° because _____

_____

b)

c
c
231°   c

c = [ ] ° because _____
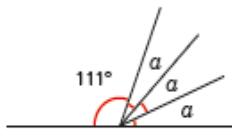
_____

7 Use the hints to work out the angles.

Three angles make up a straight line.

Angle A is half of angle B.
Angle C is five more than 130°.
All the angles are multiples of 5.

What are the 3 angles?
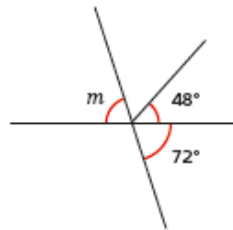
This week we are recapping on 2D and 3D shapes.

LO: To calculate angles (gold)

1 Work out the size of angle a.

111°

a
a
a

$a = $ ⬚ °

2 Work out the size of angle m.

Show all your working out.
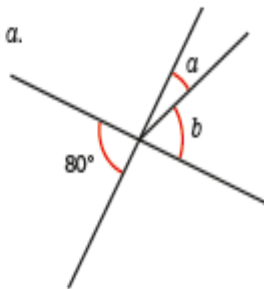
m 48°
72°

$m = $ ⬚ °

3 A circle is divided into ten equal sections.

g

What is the size of the angle marked g? $g = $ ⬚ °

4 Angle b is three times the size of angle a.

a
b
80°

Work out the sizes of angles a and b.
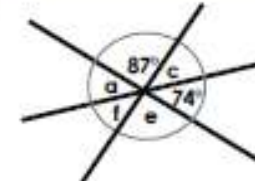
$a = $ ⬚ $b = $ ⬚

5 Barney says:

> I think that angle c measures 29°.

87° c
a   74°
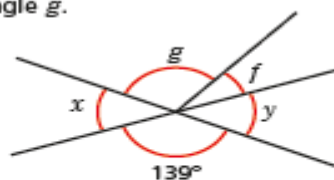f   e

Is Barney correct? Explain why.

Not to scale

6 Knowing that d measures 75°, identify whether these statements are true or false:

c
b   d
a

a. Angles c and d total 180°.

b. Angles b and d total 150°.

c. Angles a, b, c and d total 340°.

d. Angle a measures 25°.

7 Angle f is one quarter of the size of angle g.

Angle f is 28°.

g
x f
y
139°

Are angles x and y vertically opposite? _____

Explain your answer.