Name: **Grade:** **Score:**

Worksheet #3

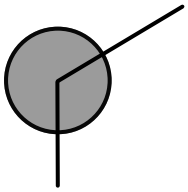
MeandMath

ANGLE MEASURES IN RATIO

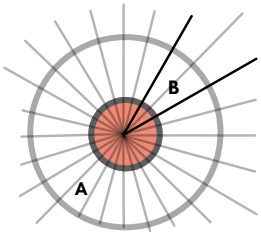
Learning goal: Students will apply their understanding of angle types and angle sums using ratios and algebraic reasoning to calculate unknown angle measures in various geometrical contexts

Find the measure of A, B and C using ratios.

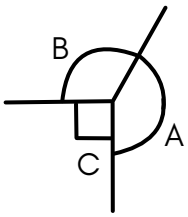
A : B = 1 : 2



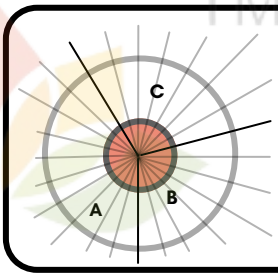
B: A = 1: 11



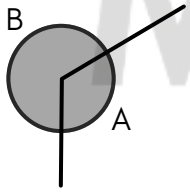
B : A = 7 : 2



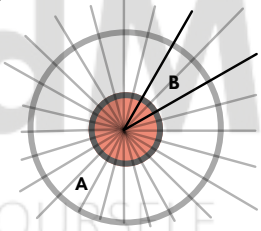
B : C = 5 : 1



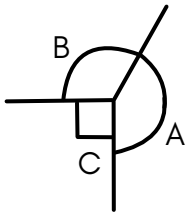
A : B = 5 : 1



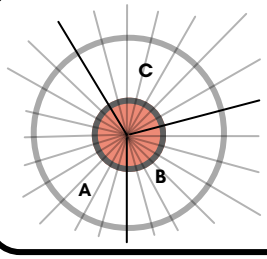
A: B = 3: 1



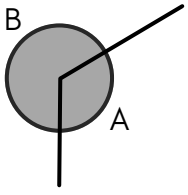
A : B = 5 : 4



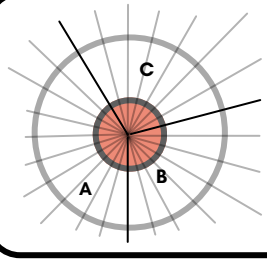
A : C = 11 : 1



A : B = 7 : 5



A : B = 4 : 5



Name: **Grade:** **Score:**

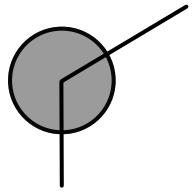
Worksheet #3(Answers)

MeandMath

ANGLE MEASURES IN RATIO

Learning goal: Students will apply their understanding of angle types and angle sums using ratios and algebraic reasoning to calculate unknown angle measures in various geometrical contexts

Find the measure of A, B and C using ratios.



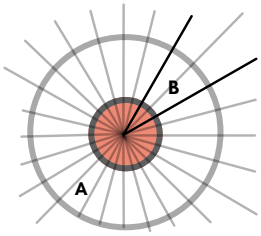
A : B = 1 : 2

2 x + 1x = 3x

3x= 360

x =120

A= 1x = 120°, B= 2x = 240°



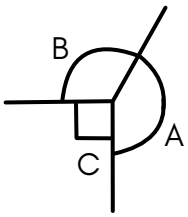
B: A = 1: 11

1x + 11x = 12x

12x= 360

x =30

B= 1x = 30°, A= 11x = 330°



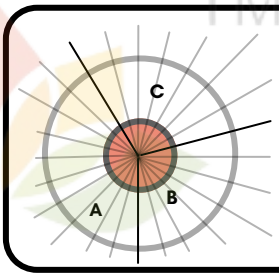
B : A = 7 : 2

7x + 2x = 9x

9x= 360

x =40

B= 2x = 80°, A= 7x = 280°



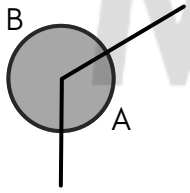
B : C = 5 : 1

5x + x = 6x

6x= 360

x =60

B= 5x = 300°, C= x = 60°



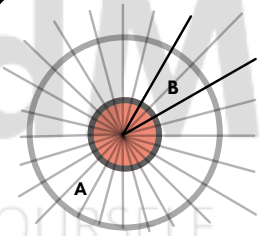
A : B = 5 : 1

5x + 1x = 6x

6x= 360

x =60

A= 5x = 300°, B= x = 60°



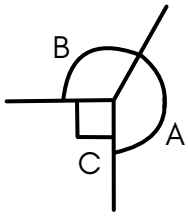
A: B = 3: 1

3x + 1x = 4x

4x= 360

x =90

A= 3x = 270°, B= x = 90°



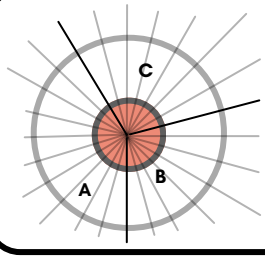
A : B = 5 : 4

5x + 4x = 6x

9x= 360

x =40

A= 5x = 200°, B= 4x = 160°



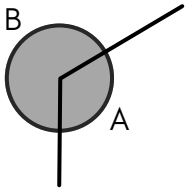
A : C = 11 : 1

11x + x = 12x

12x= 360

x =30

A= 11x = 330°, C= x = 30°



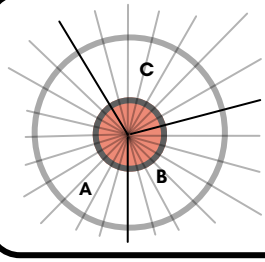
A : B = 7 : 5

7x + 5x = 12x

12x= 360

x =30

A= 7x = 210°, B= 5x = 150°



A : B = 4 : 5

4x + 5x = 9x

9x= 360

x =40

A= 4x = 160°, B= 5x = 200°