**A 7 year old business began with 2 employees, the next year had 4 emplyees, then the next year had 7 employees, then the next year had 11 employees. How many employees does the business have the next year?**

2, 4, 7, 11

Second year - First Year = 4-2 = 2

Third Year - Second Year = 7-4 =3

Fourth Year - Third Year = 11-7 = 4

Fifth Year - Fourth Year = 5 .....[From the above sequence]

So, fifth year employees = 5 + Fourth Year Employees

$\qquad$ = 5 + 11 = 16 Employees $\qquad$ Answer

An ordinary die is rolled.

A) {1, 6}
B) {36}
C) {1, 2, 3, 4, 5, 6}
D) {6}

C) {1, 2, 3, 4, 5, 6} Answer

The above answer represents the set that shows all the values that can appear when rolling a dice. So C would be the answer

how to evaluate algebraic expressions. 2(z+3)-5zforz=-1

2(z+3)-5z

Given z=-1, putting value of Z in the given equation

= 2 (-1+3) - 5 (-1)

= 2(2)+5

= 4 + 5

= 9  <mark>Answer</mark>

1 Alluminium Can saves 4 hrs of energy.

= 1/4 cans/hour

So, Ratios is 1/4 Answer

3-i ---- 6 + 2i how do you simplify this equation. i'm stumped and my teacher wont help anyone in class.

Given Equation is

3-i - 6 + 2i

Keeping the similar terms together

= 3 -6 -i+2i

Adding/Subtracting similar terms

= -3 + i

= i - 3  Answer

if gas costs 76 per litre, how much 15 litres cost?

Gas costs 76 per litre

Cost of 1 litre gas = 76 cent

Cost of 15 litre gas = 76 * 15

$$= 1140 \text{ Cents}$$

$$= \$ 11.40$$

Find the products. (2x + 1) ( 3x − 2)

(2x + 1) ( 3x − 2)

$= 6x^2 -4x + 3x -2$

$= 6x^2 -x -2$     Answer

Convert this angle in degrees to radians. -210°

Radians = Degrees x $(\frac{\pi}{180})$

$$= -210 \text{ x } (\frac{\pi}{180})$$

$$= -\frac{7\pi}{6}$$

To convert in polar coordinates, we subtract -7 π from 24π

$$= \frac{17\pi}{6} = (17 \times 3.14)/6 = 8.90 \quad \textbf{Answer}$$

Convert this angle in radians to degrees. Express your answer in decimal form, rounded to two decimal places. 6.52

Degrees = Radians x $(\frac{180}{\pi})$

Degrees = 6.52 x $(\frac{180}{\pi})$

= (6.52/3.14) x 180

= 2.076 x 180 = 373.68 **Answer**

Angles greater than 360 represent one or more full rotations over a circle.

In this problem, *A* denotes the area of the sector of a circle of radius *r* formed by the central angle *θ*. Find the missing quantity. Round answers to three decimal places, if necessary. *r* = 6 meters, *θ* = 1/2 radian

Area of Arc

Area = $(\theta/2)r^2$

   = $(1/4)\,(6)^2$

   = *9 meter*$^2$     **Answer**


In this problem, *A* denotes the area of the sector of a circle of radius *r* formed by the central angle *θ*. Find the missing quantity. Round answers to three decimal places, if necessary. *θ* = 1/6 radian, *A* = 5 square feet

Area of Arc

A = $(\theta/2)r^2$

r2 = 2A/ $\vartheta$

  = (2*5)/ (1/6)

 = 10 * 6 = 60

r = $\sqrt{60}$

 = 7.75 foot     **Answer**