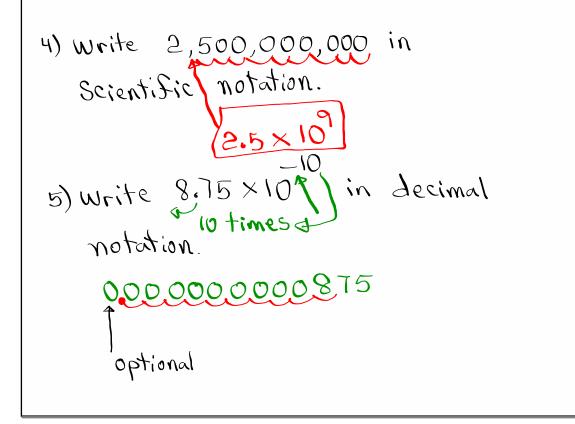


Some Basic Math review:
1) Reduce
$$\frac{15}{120} = \frac{5 \cdot 15}{5 \cdot 24} = \frac{5 \cdot 3}{3 \cdot 8} = \frac{5}{8}$$

2) Write $\cdot 125$ in reduced fraction
 $\cdot 125 = \frac{125}{1000} = \frac{5 \cdot 25}{5 \cdot 200} = \frac{5 \cdot 5}{5 \cdot 40} = \frac{5}{40} = \frac{1}{8}$
3) Convert $\cdot 5/$. to
a) Decimal
 $\cdot 5/. = \cdot 5(.01) = .005$
 $\cdot 5/. = \frac{5}{1000} = \frac{5}{200}$



8.5% of 120) randomly selected were
left-handed. How many were left-handed?
what is
$$(8.5)$$
, 05 120?
 $\chi = .085$ (120)
If decimal \rightarrow Round-up
 $\chi = 10.2$ $\chi \approx 11$

Use calc. to Sind

$$\frac{125 - 100}{\frac{8}{\sqrt{25}}} = \frac{25}{\frac{8}{5}} = \frac{25}{1.6} = 15.625$$
whole # ->16
1-decimal -> 15.6
2-decimal -> 15.63
! Sactorial
0! = 1
n! = n(n-1)(n-2)(n-3).....3.2.1
5! = 5.4.3.2.1 = 120
8! - 6! = 8.7.6.5.4.3.2.1 - 6.5.4.3.2.1
= 40.320 - 720
= 39.600

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$$m^{C}r \quad \text{(ombination)} \qquad m^{C}r = \frac{n!}{H! \cdot (n-r)!}$$

$$5^{C}a = \frac{5!}{2! \cdot (5-2)!} = \frac{5!}{2! \cdot 3!}$$

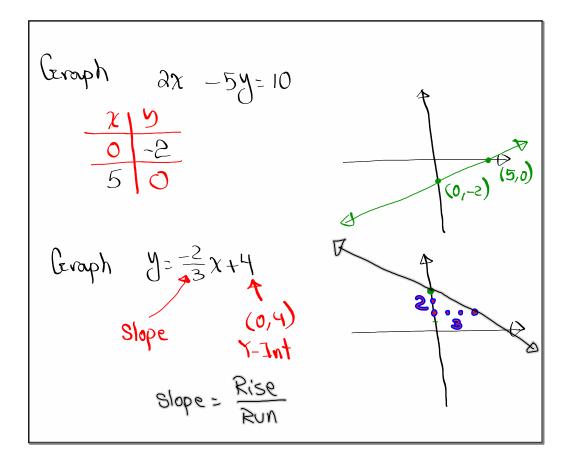
$$= \frac{5 \cdot 4^{2} \cdot 3 \cdot 2 \cdot 1}{2! \cdot 3! \cdot 3! \cdot 2! \cdot 1} = \frac{10}{100}$$

$$\pi^{C}q = \frac{7!}{4! \cdot (7-4)!} = \frac{7!}{4! \cdot 3!} = \frac{7 \cdot 6 \cdot 5 \cdot 4!}{4! \cdot 3! \cdot 3! \cdot 2! \cdot 1}$$

$$= \frac{35}{1} = \frac{35}{1}$$

Eiven
$$y = 4x - 12$$

Sind y when $x = 4.5$.
 $y = 4(4.5) - 12$
 $= 18 - 12 = 6$
Sind x when $y = 24$.
 $a4 = 4x - 12$
 $a4 = 4x - 12$
 $a4 = 4x - 12$
 $x = 9$



I randomly selected 80 students. 15 were taking Math & English y " Math only. 20 y English only. 4 25 Muth organize this in a English Venn Diagvam. 201 25 15 20 How many students Total 80 were taking one of SG 1 these classes but not both? 20-125 = 45

Level of measurements Red, white, Blue 1) Nominal -> Names Toyota, Honda, Chevy, 2) Ordinal -> Small, Med., Large Sord. 3) Ratio -> Meaningful Ratio 4) Interval Shirt Size 15 Not Ratio Range of values Small drink 1002 Laveye " 2007 90% - (00% => A

Experiment You observe changes based on action taken. Simple Random Sample when all outcomes have equal chance of being selected. 562

I randomly selected 8 students, and
here are QZ results
2, 3, 4, 4, 6, 6, 6, 10
Sample Size [N=8]
Range = Max - Min = 10 - 2 = [8]
Midrange =
$$\frac{Max + Min}{2} = \frac{10+2}{2} = \frac{12}{2} = \frac{16}{2}$$

Mode: 6
 $\sum x = 2 + 3 + 4 + 4 + 6 + 6 + 6 + 6 + 10$
Function Data = [41]
 $\sum x^{2} = 2^{2} + 3^{2} + 4^{2} + 4^{2} + 6^{2} + 6^{2} + 6^{2} + 10^{2}$
Data element
Summation Data = 4 + 9 + 16 + 16 + 36 + 36 + 36 + 100

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L

I randomly selected 20 students, here are
their ages:
18 19 19 20 23 25 1) N=20
35 35 28 30 30 30
32 34 34 35 38 39 = 224
40 42 3) Midwange 42+18
40 42 3) Midwange 42+18
41 Mode: 25 \$\$30 Bimodal = 30
Perform the following operations
is result is whole #
$$\Rightarrow$$
 Add I
 r r decimal \Rightarrow Round-Up
Range = $\frac{24}{3} = 8 \Rightarrow 9$
Range = $\frac{24}{3} = 8 \Rightarrow 9$
Range = $\frac{24}{3} = 6 \Rightarrow 9$

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