

June 6th	5-a-day	Numeracy
<p>In a school election, 80 people voted.</p> <p>53 voted for Tim. The rest voted for Gina.</p>	<p>What fraction of people voted for Gina?</p> $\frac{27}{80}$	
<p>$\frac{3}{4}$ of 48 gallons</p> $48 \div 4 = 12$ $12 \times 3 = 36$	<p>36 gallons</p>	
<p>Mollie has £250 in her bank account to the nearest ten pounds.</p> <p>What is the smallest amount she could have?</p> $£245$	<p>What is the largest amount she could have?</p> $£254.99$	
<p>Write 52% as a decimal</p> 0.52	<p>Write 0.55 as a fraction in its simplest form</p> $\frac{55}{100} = \frac{11}{20}$	
<p>Expand $g(4g + 1)$</p> $4g^2 + g$	<p>Expand $4h(2h - 3)$</p> $8h^2 - 12h$	

Arrange in order, from smallest to largest.

$$\frac{1}{2}$$

$$\frac{5}{6}$$

$$\frac{1}{3}$$

$$\frac{3}{6}$$

$$\frac{5}{6}$$

$$\frac{2}{6}$$

$$\frac{1}{3}$$

$$\frac{1}{2}$$

$$\frac{5}{6}$$

	French	Art
Female	8	3
Male	7	3

11

10

A student is chosen at random.

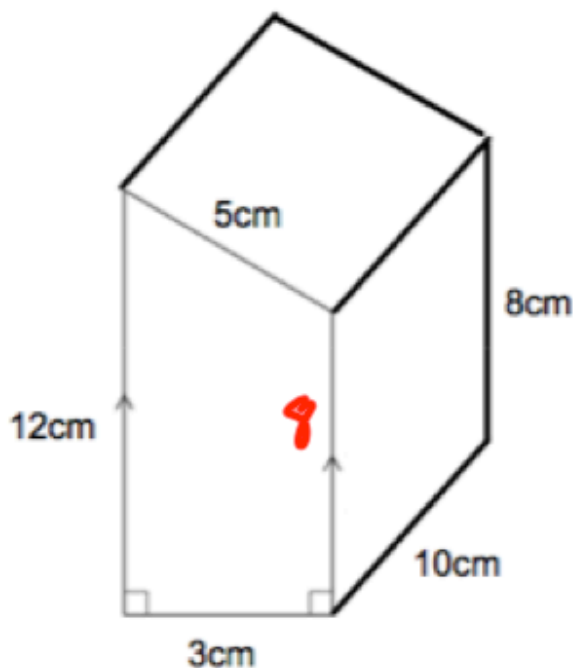
What is the probability that it is a girl?

$$\frac{11}{21}$$

$$\frac{1}{5} \times \frac{3}{7} = \frac{3}{35}$$

$$\frac{1}{6} + \frac{2}{3}$$

$$\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$$



Calculate the area of the trapezium at the front of this prism. (Cross-sectional area)

$$\frac{1}{2}(a+b)h$$

$$\frac{1}{2}(8+12) \times 3$$

$$\frac{1}{2}(20) \times 3 = 30\text{cm}^2$$

Calculate the volume of the prism.

$$30 \times 10 = 300\text{cm}^3$$

Expand and simplify

$$9(x + 2) - 3(2x + 2)$$

$$9x + 18 - 6x - 6$$

$$3x + 12$$

8 7 9 8 3 8 9 8 8 9 8

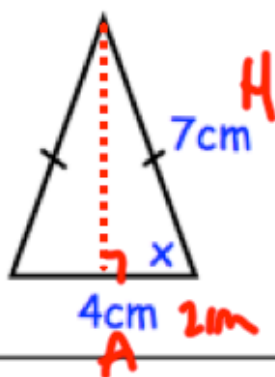
What is the relative frequency of a 9?

$$\frac{3}{11}$$

Write as a single power of 5.

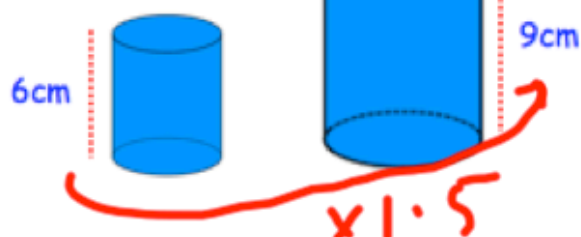
$$\frac{5^3 \times 5^{11}}{5^2} = \frac{5^{14}}{5^2}$$

$$= 5^{12}$$

Find x

$$\cos x = \frac{2}{7}$$

$$x = 73.4^\circ$$

Volume = 100cm^3 

Find the volume of the larger cylinder.

$$100 \times 1.5^3$$

$$337.5\text{cm}^3$$