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January 10th	5-a-day	Numeracy

Matt arrives at school at the time shown.

He left his house **ten minutes earlier.**

What time did he leave?

08:50

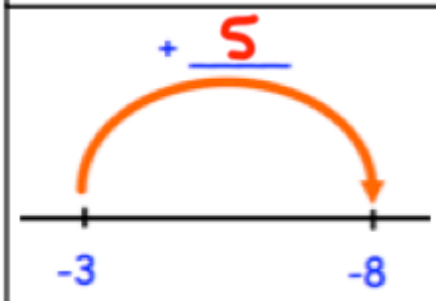
4 8 16 32

What is the rule for the sequence above?

multiply by 2

What are the next two numbers?

64 128



13 × 4 = 52

14 x 4 = 56

How many days are there in 12 weeks?

7 x 12

84 days

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January 10th	5-a-day	Foundation

Simplify

$m^6 \times m^2$ m^8

Simplify

$m^6 \div m^2$ m^4

Complete this table for the graph $y = x^2+1$

x	-2	-1	0	1	2
y	5	2	1	2	5

David is x years old
Martin is 3 years older than David
The sum of their ages is 37

Write an equation based on this information

$2x+3=37$

Solve the equation $2x+3=37$

$2x=34$

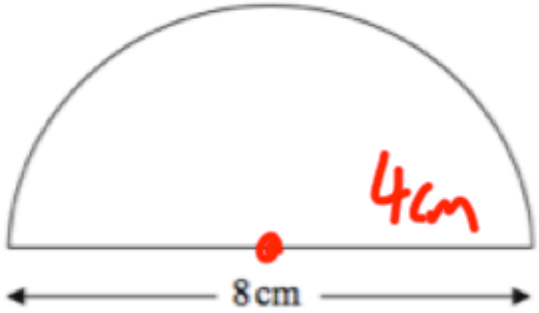
$x=17$

	French	German	
Male	14	6	20
Female	12	8	20
	14	14/40	

A student is selected at random.

What is probability of the student studying German?

$\frac{14}{40}$ $\frac{7}{20}$



Calculate the area

$\frac{1}{2}(\pi \times 4^2)$.

$= 25.13 cm^2$

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January 10 | **5-a-day** | **Higher**

$4\frac{1}{4} \div 2\frac{3}{5}$

$\frac{17}{4} \div \frac{13}{5}$

$\frac{17}{4} \times \frac{5}{13} = \frac{85}{52} = 1\frac{33}{52}$

Tim's pay increased by 5% to £880 a fortnight.

What was his pay before the increase?

105% = 880

1% = 8.38095 2..

100% = 838.10

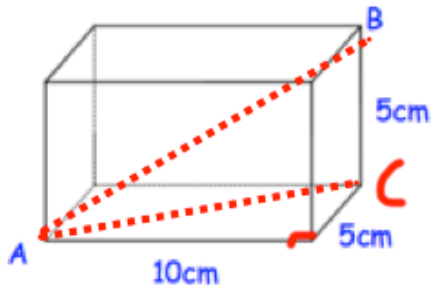
£838.10 or £838.09

Age	Frequency	midpt	fx
0<A≤10	5	5	25
10<A≤20	9	15	135
20<A≤40	6	30	180
	20		340

Calculate an estimate of the mean.

340 ÷ 20 = 17

$25^{-0.5}$ $\frac{1}{5}$



Find the distance AB.

AC = $5\sqrt{5}$

$AB^2 = (5\sqrt{5})^2 + 5^2$

$AB^2 = 150$

$AB = 5\sqrt{6}$ or 12.25cm

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