



New Maths GCSE: A1, A3 & A21 - Writing Algebraic Formula

Name:.....

Date:.....

Which formula would you use to calculate the number of legs, L , on C cows?

A $L = 4C$

B $C = 4 + L$

C $C = 4L$

D $L = C + 4$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

Which formula would you use to calculate amount, A , each person gets when a prize, P , is shared between n people?

A $A = \frac{P}{n}$

B $P = \frac{A}{n}$

C $A = Pn$

D $A = \frac{n}{P}$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

An electrician charges a £30 call out charge plus £20 an hour. What formula works out the cost C for n hours work?

A $C = 20 + 30n$

B $C = 50n$

C $C = 30 + 20n$

D $C = 50 + n$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

To convert °C to °F, you multiply by 1.8 and add 32. How is this written as a formula?

- A $C = 1.8F + 32$
- B $C = 1.8(F + 32)$
- C $F = 1.8C + 32$
- D $F = 1.8(F + 32)$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

A party venue charges £150 for the venue hire, £30 an hour for a DJ and £8 per person for the buffet. How much would a party for n people for h hours cost (C)?

- A $C = 150 + 30h + 8n$
- B $C = 150 + 30n + 8h$
- C $C = 188hn$
- D $C = 180 + 8n + h$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

Which formula would you use to calculate the number of miles left, n , on a 100 mile journey when you have already travelled m miles?

- A $n = m - 100$
- B $m = n - 100$
- C $m = 100 - n$
- D $n = 100 - m$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....