

Write 72 as a product of its prime factors.

WE DO

$$A = 2^n \times 3 \times 5^m$$

Write $8A$ as a product of powers of its prime factors.

YOU DO

Annie invests £9500 for 5 years in a savings account.
She gets 1.8% per annum compound interest.

WE DO

How much money does Annie have at the end of 5 years.

On 1st January 2016 Li bought a boat for \$170 000
The value of the boat depreciates by 8% per year.

YOU DO

Work out the value of the boat on 1st January 2019
Give your answer correct to the nearest dollar.

$$a = \frac{b}{c}$$

$b = 23.65$ correct to 2 decimal places

$c = 5.7$ correct to 1 decimal place

Work out the upper bound for a .

Give your answer to 2 decimal places.

WE DO

YOU DO

$$C = b - a$$

$a = 6$ correct to the nearest integer

$b = 15$ correct to the nearest 5

Work out the upper bound for the value of C

Show your working clearly.

WE DO

Cone A and Cone B are mathematically similar.

The volume of Cone A is 250 cm^3 and the volume of Cone B is 16 cm^3 .

The total surface area of Cone B is 12 cm^2 .

Calculate the total surface area of Cone A.

YOU DO

A and B are two similar vases.

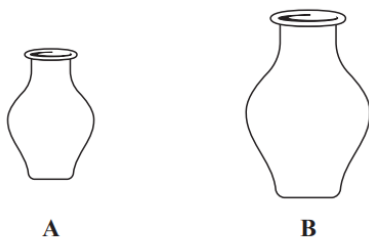


Diagram NOT
accurately drawn

Vase A has height 24 cm.

Vase B has height 36 cm.

Vase A has a surface area of 960 cm^2

(a) Work out the surface area of vase B.

