

# MA = 7 days to go!

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12 (a) Write 1620 as a product of its prime factors.

Answer \_\_\_\_\_ [2]

(b) Hence write down

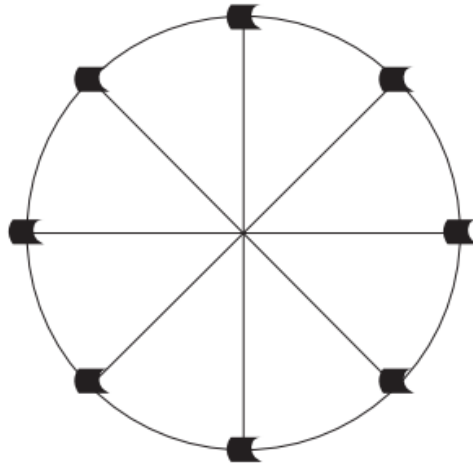
(i) three square factors of 1620

Answer \_\_\_\_\_ [2]

(ii) one cube factor of 1620

Answer \_\_\_\_\_ [1]

24 The diagram shows a big wheel at a fairground. The radius of the wheel is 26 m.



When the wheel starts to turn, Jill is in the bottom carriage on the ground.

How high will Jill's carriage be above the ground when the wheel has turned  $115^\circ$ ?

4 Heather has an annual salary of £32 000

The first £10 800 is tax free.

She pays income tax at a rate of 20%.

How much of her salary is left after paying her tax?

Answer £ \_\_\_\_\_ [3]