

Highest Common Factor

Find the highest common factor of:

- (a) 10 and 25
- (b) 8 and 21
- (c) 14 and 35
- (d) 18 and 27
- (e) 12 and 30

Find the highest common factor of:

- (a) 30 and 42
- (b) 36 and 60
- (c) 50 and 125
- (d) 80 and 120
- (e) 72 and 90

(a) Mia has some identical boxes of biscuits. In total there are 60 custard creams, 72 ginger biscuits and 90 bourbon biscuits. What is the largest number of boxes of biscuits Mia can have?

(b) Jack and Jill both keep chickens. Jack's chickens have laid 84 eggs and Jill's chickens have laid 108 eggs. They want to buy some egg boxes and want the eggs to fit exactly into the box, without mixing their eggs. What is the largest egg box they could buy?

Find the highest common factor of:

- (a) 24, 36 and 60
- (b) 54, 72, and 90
- (c) 64, 96 and 112

(a) Find all the numbers less than 100 that have exactly six factors where one of those factors is 15.

(b) Find the number which has exactly four factors where one of those factors is 9.

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