

## Lowest Common Multiple

Find the lowest common multiple of:

- (a) 4 and 5
- (b) 4 and 6
- (c) 3 and 6
- (d) 3 and 8
- (e) 8 and 12

- (a) 20
- (b) 12
- (c) 6
- (d) 24
- (e) 24

Find the lowest common multiple of:

- (a) 20 and 25
- (b) 20 and 30
- (c) 20 and 24
- (d) 30 and 42
- (e) 36 and 90

- (a) 100
- (b) 60
- (c) 120
- (d) 210
- (e) 180

(a) The train from York arrives at the station every 18 minutes. The train from Leeds arrives every 30 minutes. If both trains are in the station at 10 am, when is the next time they will both be in the station?

(a) LCM of 18 and 30 is 90, so 11.30 am

(b) Amna helps out at the café every 9 days. Rebecca helps out every 12 days. How often do they see each other at the café?

(b) LCM of 9 and 12 is 36, so every 36 days

Find the lowest common multiple of:

- (a) 3, 4 and 5
- (b) 6, 8 and 9
- (c) 12, 15 and 20
- (d) 20, 24 and 50

- (a) 60
- (b) 72
- (c) 60
- (d) 600

Kim says the lowest common multiple of two numbers is found by multiplying the two numbers together. Is this always/sometimes or never true. Explain your answer, giving examples.

Sometimes, for example LCM of 5 and 7 is 35, which is  $5 \times 7$  but LCM of 4 and 6 is 12, which is not  $4 \times 6$