

Answers to Task 3 Number work for W/C 27th May 2020

Question 1.

Hot-dog sausages are sold in packs of 10 and hot-dog buns are sold in packs of 8. How many of each do you have to buy to have complete hot dogs with no wasted sausages or buns?

ANSWER: 4 packs of sausages and 5 packs of buns (or any multiple of these)

Question 2.

A bell chimes every 6 seconds. Another bell chimes every 5 seconds. If they both chime together, how many seconds will it be before they both chime together again?

ANSWER: 30 seconds

Question 3.

Fred runs round a running track in 4 minutes. Debbie runs round in 3 minutes. If they both start together on the line at the end of the finishing straight, when will they both be on the same line together again? How many laps will Debbie have run? How many laps will Fred have run?

ANSWER: 12 minutes. Debbie will have run 4 laps and Fred will have run 3 laps

Question 4.

Copy these sums and write out the *next four* lines.

$$1 = 1$$

$$1 + 3 = 4$$

$$1 + 3 + 5 = 9$$

$$1 + 3 + 5 + 7 = 16$$

1, 4, 9, 16 What kind of numbers are you generating?

ANSWER:

$$1 + 3 + 5 + 7 + 9 = 25$$

$$1 + 3 + 5 + 7 + 9 + 11 = 36$$

$$1+3+5+7+9+11+13=49$$

$$1+3+5+7+9+11+13+15=64$$

They are all Square numbers

Question 5.

Write down the negative square root of each number. (Do not use your calculator)

- a) 4 b) 49 c) 144 d) 1 e) 900

ANSWER:- 2 -7 -12 -1 -30

Question 6.

Write down the cube root of each number. (Do not use your calculator)

- a) 1 b) 27 c) 64 d) 8 e) -64

ANSWER: 1 3 4 2 -4

Question 7.

Write down the value of each number. (Do not use your calculator)

- a) 20^2 b) 30^2 c) 50^2 d) 0.5^2 e) $(-4)^2$

ANSWER: 400 900 2500 0.25 16 (NOT -16!!!)