# DRAWING A STRAIGHT LINE GRAPH FROM A TABLE OF VALUES – ANSWERS

## SPIRAL

S1. What is one half of 10? 5

S2. What is 10% of 50? 5

S3. What is one quarter of 8? 2

S4. What is 25% of 20? 5

## DEVELOP

1. For y = x + 1, find y when x=0, x=1, x=2 x=0: y=1; x=1: y=2; x=2: y=3

2. For y = 2x, find y when x=0, x=1, x=2 x=0: y=0; x=1: y=2; x=2: y=4

3. For y = 3x + 1, find y when x=0, x=1, x=2

x=0: y=1; x=1: y=4; x=2: y=7

4. For y = 4x, find y when x=0, x=1, x=2

x=0: y=0; x=1: y=4; x=2: y=8

5. For y = 2x + 3, find y when x=0, x=1, x=2

x=0: y=3; x=1: y=5; x=2: y=7

6. For y = x + 2, find y when x=0, x=1, x=2

x=0: y=2; x=1: y=3; x=2: y=4

7. For y = 5x, find y when x=0, x=1, x=2

x=0: y=0; x=1: y=5; x=2: y=10

8. For y = 3x + 2, find y when x=0, x=1, x=2

x=0: y=2; x=1: y=5; x=2: y=8

9. For y = 4x + 1, find y when x=0, x=1, x=2

x=0: y=1; x=1: y=5; x=2: y=9

10. For y = 2x - 1, find y when x=1, x=2, x=3

x=1: y=1; x=2: y=3; x=3: y=5

11. For y = 6x, find y when x=0, x=1, x=2

x=0: y=0; x=1: y=6; x=2: y=12

12. For y = x + 5, find y when x=0, x=1, x=2

x=0: y=5; x=1: y=6; x=2: y=7

13. For y = 3x, find y when x=0, x=1, x=2

x=0: y=0; x=1: y=3; x=2: y=6

14. For y = 2x + 4, find y when x=0, x=1, x=2

x=0: y=4; x=1: y=6; x=2: y=8

15. For y = 5x + 2, find y when x=0, x=1, x=2

x=0: y=2; x=1: y=7; x=2: y=12

16. For y = 4x, find y when x=0, x=1, x=3

x=0: y=0; x=1: y=4; x=3: y=12

17. For y = 3x + 3, find y when x=0, x=2, x=4

x=0: y=3; x=2: y=9; x=4: y=15

18. For y = x + 10, find y when x=0, x=1, x=2

x=0: y=10; x=1: y=11; x=2: y=12

19. For y = 2x + 1, find y when x=0, x=3, x=5

x=0: y=1; x=3: y=7; x=5: y=11

20. For y = 10x, find y when x=0, x=1, x=2

x=0: y=0; x=1: y=10; x=2: y=20

## APPLY

A1. A taxi charges £3 fixed fee plus £2 per mile. The cost (y pounds) for x miles is y = 2x + 3. What is the cost for 0 miles, 1 mile, 2 miles?

0 miles: £3; 1 mile: £5; 2 miles: £7

A2. A bus travels 30 miles per hour. The distance (y miles) after x hours is y = 30x. How far has it travelled after 0 hours, 1 hour, 2 hours?

0 hours: 0 miles; 1 hour: 30 miles; 2 hours: 60 miles

A3. A plant grows 3 cm per week. The height (y cm) after x weeks starting from 4 cm is $y = 3x + 4$. What is the height after 0 weeks, 1 week, 2 weeks?

0 weeks: 4 cm; 1 week: 7 cm; 2 weeks: 10 cm

A4. A pool fills at 50 litres per minute. The water amount (y litres) after x minutes is y = 50x. How much water is there after 0 minutes, 2 minutes, 4 minutes?

0 minutes: 0 litres; 2 minutes: 100 litres; 4 minutes: 200 litres

A5. A phone call costs 15 pence per minute plus a 20 pence connection fee. The total cost (y pence) for x minutes is y = 15x +