

# KS3 Higher WK 1 answers

1, a, 1, 2, 3, 4, 6 & 12

b, 1, 2, 4, 8, 16, 32

c, 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

2, a, Factors in common

1, 2, 4, 8, 16

HCF **16**

3, a, 5

b, 8

c, 36

4, a, 4, 8, 12, 16, 20, 24

b, 6, 12, 18, 24, 30, 36

c, 9, 18, 27, 36, 45, 54

d, 15, 30, 45, 60, 75, 90

e, 20, 40, 60, 80, 100, 120

5, **30**

6, a, 12

b, 36

c, 60

d, 15, 30, 45, 60, 75, 90, 105, 120, 135, **150**  
25, 50, 75, 100, 125, **150** 150

7, 11, 13, 17, 19, 23, 29, 31, 37

8, YES! 2 is

9, 13 & 17

$$10, 17 - 2 = 15$$

11, No, it is ONLY divisible by 1

12, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225

13, a,  $4 + 9 = 13$  b,  $36 - 16 = 20$  c,  $25 \times 4 = 100$  d,  $121 + 144 = 265$

e,  $225 \div 25 = 9$  f, 9 g, 12 h,  $7 - 6 = 1$  i,  $8 \div 4 = 2$

j,  $13 - 14 = -1$

14, a, 1

b, 8

c, 27

d, 64

e, 125

15, a, 81

b, 100,000

c, 64

16, 1

17, 1 & 64 are both square & cube numbers

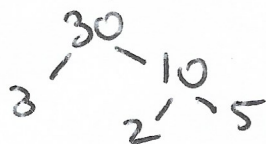
18, a, 17

b, 12

c, 4

d, 4 or 20

19, a



$2 \times 3 \times 5$

b,  $2^3 \times 3^2$

c,  $2^3 \times 3 \times 5$

d,  $2^2 \times 3^2 \times 5$

20,

A

9.10

9.20

9.30

9.40

9.50

**10.00**

B

9.12

9.24

9.36

9.48

**10.00**

10 AM