

## Integer Properties - ANSWERS

1.

- a. True
- b. False
- c. True
- d. False
- e. True
- f. False
- g. True
- h. False
- i. True
- j. True
- k. False  $3 \times 0 = 0$
- l. False  $3 \div 0 =$  is not defined – you cannot divide by zero

2.

- a. {1, 2, 3, 6, 12}
- b. {1, 3, 7, 9, 21, 63}
- c. {1, 2, 4, 8, 16, 32, 64}

3.

- a.  $2 \times 2 \times 3$
- b.  $7 \times 9$
- c.  $2 \times 2 \times 2 \times 2 \times 2 \times 2$  (can also be written  $2^6$ )

4.

- a. wrong (odd + odd = even)
- b. wrong (odd x even = even)
- c. wrong (even + even gives even but then – odd = odd)
- d. wrong (even  $\div$  even = even)
- e. No, they could still be wrong.