Factors multiples primes

0 min
0 marks

1. Three pairs of prime numbers have a **sum** of 40.

One pair is 3 and 37.

Find the other two pairs.

Answer …… and ……

…… and ……

[2]

2. 2, 3, 5, 9, 12, 15

From the set of numbers above, write down

(a) a multiple of 6,

Answer (a) ……

[1]

(b) a prime factor of 27.

Answer (b) ……

[1]

3. (a) Write down a common multiple of 6 and 8.

Answer (a) ……

[1]

(b) Work out

$$\frac{5}{6} - \frac{3}{8}.$$

Give your answer as a fraction in its lowest terms.
You must show all your working.

Answer (b) ……

[2]

4. Which one of the numbers below is **not** a rational number?

$$7, \qquad \frac{2}{3}, \qquad \sqrt{5}, \qquad -1\frac{1}{2}, \qquad \sqrt{81}$$

Answer ……

[1]

5. $\sqrt{4}$ $\sqrt{14}$ $\sqrt{36}$ $\sqrt{64}$ $\sqrt{81}$ $\sqrt{100}$

From the list above, write down

(a) a prime number,

Answer (a) ……

[1]

(b) a factor of 27,

Answer (b) ……

[1]

(c) a multiple of 4,

Answer (c) ……

[1]

(d) an irrational number.

Answer (d) ……

[1]

6. (a) Write down a number, other than 1, which is a **factor** of both 14 and 35.

Answer (a) ……

[1]

(b) Write down a number which is a **multiple** of both 14 and 35.

Answer (b) ……

[1]

7.

$$\frac{2}{3} \quad 2 \quad 3 \quad 3.14 \quad \sqrt{35} \quad 10 \quad 24 \quad 37 \quad 45 \quad 88$$

From the list of numbers above choose one that is

(i) an irrational number,

Answer (i) ……

[1]

(ii) the cube root of 27,

Answer (ii) ……

[1]

(iii) a multiple of 9,

Answer (iii) ……

[1]

(iv) a prime number,

Answer (iv) …….

[1]

(v) a factor of 44,

Answer (v) …….

[1]

(vi) the product of 6 and 4.

Answer (vi) …….

[1]

8. (i) Two of the factors of 2007 are square numbers. One of these is 1.

Find the other square number.

Answer (i) ……..…..……

[1]

(ii) Write down the two factors of 2007 which are prime.

Answer (ii) …… and ……

[2]

9. Write down

(i) a common factor of 15 and 27, which is greater than 1,

Answer (i) ……..……

[1]

(ii) a common multiple of 10 and 12.

Answer (ii) ……..……

[1]