

- 1 Two numbers have a least common multiple (LCM) of 750.
One of the numbers is 150.
The other number is between 100 and 140.

Find this number.

..... [3]

2 (a) Calculate.

$$\frac{936}{5.2 - 1.95}$$

(a) _____ [1]

(b) Insert brackets to make this calculation correct.

$$9 + 3 \times 7 - 5 = 24 \quad [1]$$

(c) Find the highest common factor (HCF) of 216 and 360.

(c) _____ [3]

3 (a) Calculate.

$$\sqrt{6.4^2 - 4 \times 9.03}$$

(a) _____ [1]

(b) (i) Write 540 as the product of its prime factors.

(b)(i) _____ [3]

(ii) Find the LCM (least common multiple) of 540 and 50.

(ii) _____ [2]

4 Find the highest common factor (HCF) of 108 and 72.

..... [2]

5 (a) Calculate.

$$\frac{(3.6 + 13.2)^2}{4.1^2 - 2.9^2}$$

(a) _____ [2]

(b) Insert brackets so that this calculation is correct.

$$4 + 5 \times 6^2 = 904 \quad [1]$$

(c) (i) Express 120 as a product of its prime factors.

(c)(i) _____ [2]

(ii) Find the least common multiple (LCM) of 120 and 42.

(ii) _____ [3]

6 (a) Write 420 as a product of its prime factors.

(a) _____ [2]

(b) Find the highest common factor (HCF) and the least common multiple (LCM) of 420 and 18.

(b) HCF = _____

LCM = _____ [3]