

Workout

Question 1:

- (a) 2×5 (b) $2^2 \times 3$ (c) $2^2 \times 5$ (d) 2×3^2
(e) 2^4 (f) $2 \times 3 \times 5$ (g) $2^2 \times 5^2$ (h) 2×13
(i) $2^3 \times 3$ (j) 3^3 (k) $2 \times 3 \times 7$ (l) 3×11
(m) 2×19 (n) 2^6

Question 2:

- (a) $2^2 \times 3^2$ (b) $2^3 \times 5$ (c) $2^2 \times 7$ (d) $2^4 \times 3$
(e) $2^4 \times 5$ (f) $2^3 \times 5^2$ (g) 3×5^2 (h) 2^5
(i) $3 \times 5 \times 7$ (j) 3^4 (k) $2^2 \times 13$ (l) 2×11^2
(m) $2^2 \times 3^3$ (n) $2^2 \times 5^3$

Question 3:

- (a) 14 (b) 30 (c) 110 (d) 24
(e) 20 (f) 75 (g) 72 (h) 99
(i) 625 (j) 400 (k) 351 (l) 2023

Question 4:

- (a) $2^3 \times 3^2 \times 5^3$ (b) 5×47 (c) $2^3 \times 7^2$
(d) $5 \times 11 \times 13$ (e) $2^2 \times 3 \times 37$ (f) $2^3 \times 3^2 \times 11$
(g) $3^2 \times 5^4$

Apply

Question 1:

- (a) $2^3 \times 3$ (b) $2^2 \times 3^2$ (c) $2^2 \times 3 \times 5$ (d) $2^4 \times 3$
(e) $2^3 \times 3 \times 5$ (f) $2^2 \times 3 \times 7$

Question 2:

- (a) $2^3 \times 3 \times 5^2$ (b) $2 \times 3 \times 5^2$ (c) $2^2 \times 3^2 \times 5^2$
(d) $2^2 \times 3 \times 5^2 \times 11$ (e) $2^2 \times 3 \times 5^3$ (f) $2^5 \times 3 \times 5^2$

Question 3:

- (a) $6 = 2 \times 3$ not $3 \times 3...$ so the answer is $2^2 \times 3^2$
(b) The answer should be in index form $2^3 \times 3$

Question 4:

(a) $2^2 \times 5 \times 7^2$

(b) 5

Question 5:

(a) $2^5 \times 3 \times 5$

(b) 30

Question 6:

(a) $2 \times 3^3 \times 7^2$

(b) 28