

Worksheet

09/19/2019

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Problem quickname: 8231

1)

Transform this term into a product. Do this by performing factorisation as shown in example a).

Quick:
8231

- a) $40b + 16c + 40e = 8(5b + 2c + 5e)$ b) $8ab + 32a = 8a(b + 4)$
 c) $14x + 28y + 21z = 7(2x + 4y + 3z)$ d) $40a + 16b = 8(5a + 2b)$
 e) $10v + 38x = 2(5v + 19x)$ f) $49w + 35x + 42y = 7(7w + 5x + 6y)$
 g) $12w + 27x + 15z = 3(4w + 9x + 5z)$ h) $2y + 26 = 2(y + 13)$
 i) $39a + 12d = 3(13a + 4d)$ j) $6z + 24 = 6(z + 4)$

2)

Transform this term into a product. Do this by performing factorisation as shown in example a).

Quick:
8231

- a) $10x + 50 = 10(x + 5)$ b) $5y + 45 = 5(y + 9)$
 c) $4vx + 24v = 4v(x + 6)$ d) $2d + 46 = 2(d + 23)$
 e) $5wx + 35x = 5x(w + 7)$ f) $4cd + 12c = 4c(d + 3)$
 g) $4wx + 48w = 4w(x + 12)$ h) $3x + 18 = 3(x + 6)$
 i) $10xy + 40y = 10y(x + 4)$ j) $5be + 10e = 5e(b + 2)$

3)

Transform this term into a product. Do this by performing factorisation as shown in example a).

Quick:
8231

- a) $7b + 28d = 7(b + 4d)$ b) $16c + 6d = 2(8c + 3d)$ c) $6a + 36 = 6(a + 6)$
 d) $24b + 8d = 8(3b + d)$ e) $40b + 35e = 5(8b + 7e)$
 f) $5w + 45 = 5(w + 9)$ g) $45b + 20d = 5(9b + 4d)$ h) $3c + 18 = 3(c + 6)$
 i) $36v + 26w = 2(18v + 13w)$ j) $16x + 40y = 8(2x + 5y)$

4)

Transform this term into a product. Do this by performing factorisation.

Quick:
8231

- a) $50a + 5c + 35d = 5(10a + c + 7d)$ b) $9w + 9x = 9(w + x)$
 c) $50b + 30c = 10(5b + 3c)$ d) $36v + 9x + 9y = 9(4v + x + y)$
 e) $24w + 30x = 6(4w + 5x)$ f) $40v + 5w + 5z = 5(8v + w + z)$
 g) $15a + 5d = 5(3a + d)$ h) $27b + 9e = 9(3b + e)$
 i) $44v + 16w + 44y = 4(11v + 4w + 11y)$ j) $32w + 42z = 2(16w + 21z)$

Good Luck!