2.8 Expanding Single Brackets: 1-hour Pack

Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Expand 6(p - 6).

(2)

2 Show that 2(b + 1) + 2(b + 5) = 4b + 12.

(3)

3 Expand -7(2p - 7).

(2)

4 Expand and simplify 2(n + 7) + 6(n - 7).

(3)

5 Expand 5(2x + 3).

(1)

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6 Expand -9(p + 8).

(2)

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7 Expand and simplify 3(b + 1) - 5(b - 2).

(3)

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8 Expand 8p(2p - 8).

(2)

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9 Expand 2p(5p - 9).

(2)

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10 Expand p(3p + 4).

(2)

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11 Expand 2b(4b + 2).

(2)

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12 Show that 2(b + 3) + 2(b + 6) = 4b + 18.

(3)

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13 Expand and simplify 6(b + 6) + 2(b - 2).

(3)

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14 Expand and simplify 6(n + 1) + 3(n - 1).

(3)

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15 Expand and simplify 5(x + 3) - 4(x - 4).

(3)

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16 Expand 4a(a + 3).

(2)

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17 Expand x(5x + 4).

(2)

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18 Show that 3(n + 1) + 6(n + 1) = 9n + 9.

(3)

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19 Work out -3(2x - 1) + 4x.

(2)

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20 Expand the brackets and solve the equation 4(x - 1) + 3 = 2x + 11.

(3)

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Mark scheme · 2.8 Expanding Single Brackets: 1-hour Pack

Question 1

one term correctly expanded	M1
6p - 36 cao	A1

Answer: **6p - 36**

Question 2

2(b + 1) = 2b + 2	M1
2(b + 5) = 2b + 10	M1
collects like terms to give 4b + 12	A1

Answer: **4b + 12 (shown)**

Question 3

one term correctly expanded	M1
-14p + 49 cao	A1

Answer: **-14p + 49**

Question 4

first bracket expanded correctly	M1
second bracket expanded correctly (watch the signs)	M1
8n - 28 cao	A1

Answer: **8n - 28**

Question 5

10x + 15 cao	B1

Answer: **10x + 15**

Question 6

one term correctly expanded	M1
-9p - 72 cao	A1

Answer: **-9p - 72**

Question 7

first bracket expanded correctly	M1
second bracket expanded correctly (watch the signs)	M1
-2b + 13 cao	A1

Answer: **-2b + 13**

Question 8

one term correctly expanded	M1
$16p^2$ - 64p cao	A1

Answer: **$16p^2$ - 64p**

Question 9

one term correctly expanded	M1
$10p^2$ - 18p cao	A1

Answer: **$10p^2$ - 18p**

Question 10

one term correctly expanded	M1
$3p^2$ + 4p cao	A1

Answer: **$3p^2$ + 4p**

Question 11

one term correctly expanded	M1
$8b^2$ + 4b cao	A1

Answer: **$8b^2$ + 4b**

Question 12

2(b + 3) = 2b + 6	M1
2(b + 6) = 2b + 12	M1
collects like terms to give 4b + 18	A1

Answer: **4b + 18 (shown)**

Question 13

first bracket expanded correctly	M1
second bracket expanded correctly (watch the signs)	M1
8b + 32 cao	A1

Answer: **8b + 32**

Question 14

first bracket expanded correctly	M1
second bracket expanded correctly (watch the signs)	M1
9n + 3 cao	A1

Answer: **9n + 3**

Question 15

first bracket expanded correctly	M1
second bracket expanded correctly (watch the signs)	M1
x + 31 cao	A1

Answer: **x + 31**

Question 16

one term correctly expanded	M1
$4a^2$ + 12a cao	A1

Answer: **$4a^2$ + 12a**

Question 17

one term correctly expanded	M1
$5x^2$ + 4x cao	A1

Answer: **$5x^2$ + 4x**

Question 18

3(n + 1) = 3n + 3	M1
6(n + 1) = 6n + 6	M1
collects like terms to give 9n + 9	A1

Answer: **9n + 9 (shown)**

Question 19

expand -3(2x-1) to -6x + 3 or equivalent method	M1
-2x + 3 cao	A1

Answer: **-2x + 3**

Question 20

expand 4(x-1) to 4x - 4, giving 4x - 1 = 2x + 11	M1
collect terms correctly, e.g. 2x = 12	M1
x = 6 cao	A1

Answer: **6**

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