# Why Did the Backpacker Carry a Flashlight?

Write the exercise letter in the box containing the number of the answer.

**Find the greatest common factor.**

**E** $10x + 35$

**O** $4x^2 - 15x$

**A** $20x^2 + 36x$

**H** $11x^3 - 2x^2$

**T** $24x^3 - 64x^2 + 40x$

**S** $60x^4 + 70x^3 - 10x^2$

answers

**㉑** $5x^3$

**㉘** $4x$

**❼** $8x$

**⑲** $5$

**❸** $2x^2$

**㉔** $10x^2$

**⑫** $x$

**⑰** $x^2$

**Find the greatest common factor.**

**D** $10a^2b + 16ab^2$

**E** $11a^3b - 2a^2b^4$

**H** $36a^4 + 27a^3b$

**A** $3a^2b^2 + 18ab^3 - 33b^4$

**I** $4a^4b^2 - 9a^3b^3 + a^2b^4$

**N** $75a^5b^3 + 30a^3b^5 - 60ab^7$

answers

**❷** $a^2b$

**❺** $3b^2$

**㉗** $a^4b$

**⑳** $15ab^3$

**㉒** $9a^3$

**❾** $2ab$

**⑮** $a^2b^2$

**❹** $5ab^2$

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**Simplify the expression.**

**O** $\dfrac{8t + 12}{4}$

**T** $\dfrac{2t^2 - 9t}{t}$

**E** $\dfrac{15t^2 + 20t}{5t}$

**I** $\dfrac{6t^3 - 11t^2}{t^2}$

**H** $\dfrac{4t^3 + 18t^2 - 10t}{2t}$

**L** $\dfrac{-9t^4 - 60t^3 + 3t^2}{-3t^2}$

**Simplify the expression.**

**W** $\dfrac{8a^2b + 3ab^2}{ab}$

**D** $\dfrac{12ab^2 - 40a^2b}{4ab}$

**G** $\dfrac{7a^5b^4 + 49a^4b^5}{7a^2b}$

**N** $\dfrac{-10a^3b + 30ab^3}{-2ab}$

**L** $\dfrac{18a^7b^5 + 45a^5b^3 + 9a^3b}{9a^3b}$

**T** $\dfrac{15a^4b^4 - 3a^4b^5 - 6a^3b^6}{3a^2b^3}$

answers

**㉓** $6t - 11$    **⑭** $3t^2 + 20t - 1$

**⑩** $3t - 11$    **⑪** $2t - 9$

**㉗** $2t + 3$    **㉕** $3t^2 - 10t - 1$

**❽** $3t + 4$    **❶** $2t^2 + 9t - 5$

answers

**⑯** $a^3b^3 + 7a^2b^4$    **⑱** $5a^2b - a^2b^2 - 2ab^3$

**❹** $8a + 3b$    **㉑** $2a^4b^2 + 5ab^2 + 1$

**❻** $5a^2 - 15b^2$    **㉖** $2a^4b^4 + 5a^2b^2 + 1$

**㉙** $3b - 10a$    **⑬** $5a^2b - 2a^2b^4 + ab^3$

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
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