

PERCENTS – EXPRESSIONS – Elizabeth

1 and 2 refer to the following information.

1. Elizabeth makes \$120 a week. She got an 8% raise, which expression shows how much her **raise** is?
 - ① (120×8)
 - ② $(120 \times .8)$
 - ③ $(120 \times .08)$
2. Which expression shows her **new salary**?
 - ① $(120 \times 8) + 120$
 - ② $(120 \times .08) + 120$
 - ③ $(120 \times .8) + 120$

3 and 4 refer to the following information.

3. A DVD player listed for \$160.00 was on sale for 12 ½% off. Which expression shows the **discount**?
 - ① (160×12.5)
 - ② (160×1.25)
 - ③ $(160 \times .125)$
4. Which expression shows the **sale price** of the DVD player?
 - ① $(160 \times 12.5) - 160$
 - ② $(160 \times .125) - 160$
 - ③ $160 - (160 \times .125)$

5 and 6 refer to the following information.

5. Esther makes \$12,000 a year. She got a raise of 8.5%. Which expression shows how much her **raise** is?
 - ① $(12,000 \times 8.5)$
 - ② $(12,000 \times .85)$
 - ③ $(12,000 \times .085)$
6. Which expression shows Esther's **new salary**?
 - ① $12,000 - (12,000 \times .085)$
 - ② $12,000 + (12,000 \times .085)$
 - ③ $12,000 + (12,000 \times 8.5)$

7 and 8 refer to the following information.

7. Steve made a down payment of 12 ½% on a used vehicle which cost \$2,400. Which expression shows how much the **down payment** is?
 - ① (12.5×2400)
 - ② (1.25×2400)
 - ③ $(.125 \times 2400)$
8. After Steve made the down payment, which expression shows how much more he **still owes** on the vehicle?
 - ① $(12.5 + 2400) + 2400$
 - ② $(.125 \times 2400) - 2400$
 - ③ $2400 - (.125 \times 2400)$

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9. The Klingshirns spend 12 ½% of their income on groceries. If they make \$900 a week, which expression shows how much they **had left** each week after they bought groceries?

① $900 - (900 \times 12.5)$
② $900 - (900 \times .125)$
③ $900 - (900 \times 1.25)$

10. Joe found a lawn mower at Sears listed for \$179, but during a Thanksgiving Day Sale, he could get an additional 25% off. Which expression shows how much Joe would pay for the lawn mower if **he bought it during the Thanksgiving Day Sale**?

① $(179 \times .25) - 179$
② $179 - (179 \times 2.5)$
③ $179 - (179 \times .25)$

11 and 12 refer to the following information.

11. Millie's gross salary is \$2000 a month. Her employer deducts 18% of her salary for taxes and social security. Which expression shows Millie's **deductions**?

① $(2000 \times .18)$
② (2000×1.8)
③ (2000×18)

12. Which expression shows Millie's **net** pay?

① $(2000 \times 18) - 2000$
② $(2000 \times .18) - 2000$
③ $2000 - (2000 \times .18)$

13 and 14 refer to the following information.

13. There were 40 students in Juliette's math class. On Wednesday, 25% of the class was absent because of the flu. Which expression shows how many students were **absent** Wednesday?

① (40×25)
② $(40 \times .25)$
③ (40×2.5)

14. Which expression shows how many students were **in class** Wednesday?

① $(40 \times .25) - 40$
② $40 - (40 \times .25)$
③ $40 + (40 \times .25)$