

Tax on One Item

GRADE 5

MATHEMATICS

F1.2

B2.3

Ten percent of an amount is the same as multiplying by 0.1: every digit moves one place to the right. 10% of \$30 is \$3. To find what you pay altogether, add the tax onto the price.

PART A: TEN PERCENT

1. 10% of \$30 is \$_____.
2. 10% of \$45 is \$_____.
3. 10% of \$8 is \$_____.
4. 10% of \$120 is \$_____.

PART B: PRICE PLUS TAX

5. A notebook costs \$20. The 10% tax is \$2. Altogether that is \$_____.
6. A pencil case costs \$15. The 10% tax is \$1.50. Altogether that is \$_____.
7. A poster costs \$6. The 10% tax is \$_____ and altogether that is \$_____.

PART C: ABOUT HOW MUCH?

8. A price tag reads \$9.90. Rounded to the nearest dollar, that is about:
(A) \$10 (B) \$9 (C) \$11
9. Zanele picks up one item marked \$19.95. Rounded to the nearest dollar, that is about:
(A) \$20 (B) \$19 (C) \$21

PART D: AT THE CLASS STORE

- 10.** Carlos buys a backpack marked \$40. The tax is 10%. How much tax does he pay, and what does he pay altogether?

SHOW YOUR WORK

Answer: _____

- 11.** Florencia has \$25. A game costs \$22 plus 10% tax. Can she afford it?

SHOW YOUR WORK

Answer: _____

PART E: SHOW WHAT YOU KNOW

- 12.** Explain how you can find 10% of any amount of money without a calculator. Use \$45 as your example.

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ANSWER KEY

1. \$3.00
2. \$4.50
3. \$0.80
4. \$12.00
5. \$22.00
6. \$16.50
7. \$0.60 tax and \$6.60 altogether
8. A) \$10
9. A) \$20
10. The tax is \$4.00 and he pays \$44.00 altogether.
11. Yes. The tax is \$2.20, so the game costs \$24.20 altogether, which is less than \$25.
12. Move every digit one place to the right, which is the same as multiplying by 0.1, so 10% of \$45 is \$4.50. An answer describing it as dividing by 10 is equally correct.

TEACHER NOTES

Reduced expectations: one item rather than a cart, a 10% tax rather than 5% so the whole calculation is a single place-value shift, and the tax is given before it is asked for in Part B. The Standard sheet in this unit (Taxed Class Store Totals) uses 5% on multi-item carts.