

Test Readiness Checkup

Circle each correct answer. Check your answers on page 247; then correct any errors.

- A magazine reported that 35% of the people who attended the rally were women. If 133 women were there, which expression could you use to find how many people attended in all?

(1) $133 \div 0.35$
 (2) $0.35 \div 133$
 (3) $133 \div 35$
 (4) 0.35×133
 (5) 133×35
- Which of the following has (have) the same value as 40%?

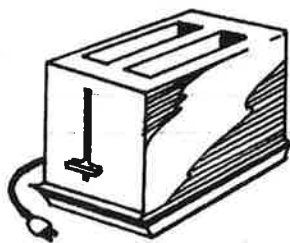
A. 4 B. 0.4 C. $\frac{2}{5}$ D. $\frac{4}{5}$

(1) A and C only
 (2) B and C only
 (3) A and D only
 (4) B and D only
 (5) B only
- Fortrell Lumber Company announced that it would rehire $66\frac{2}{3}\%$ of the 291 workers it laid off last year. How many workers are going to be rehired?

(1) 67 (4) 194
 (2) 97 (5) 224
 (3) 138
- Including the sales tax, what is the total cost of the toaster shown below?

5% Sales Tax on All Items

(1) \$25.20
 (2) \$26.80
 (3) \$29.00
 (4) \$32.40
 (5) \$44.00



\$24.00
- For selling 25 sets of Children's Fairy Tales, Lynn was paid a \$200 commission. If her total sales receipts are \$1,250, what percent commission does Lynn earn?

(1) 8%
 (2) 10%
 (3) 12%
 (4) 14%
 (5) 16%
- When she bought a stove, Ming made a 20% down payment of \$82.50. What is the purchase price of Ming's new stove?

(1) \$252.50
 (2) \$384.60
 (3) \$412.50
 (4) \$644.80
 (5) \$825.00
- Clara placed \$650 in a savings account that pays 4% simple interest. How much interest will Clara earn from this account if she leaves her money in for 18 months?

(1) \$23
 (2) \$29
 (3) \$35
 (4) \$39
 (5) \$42
- The Clothes House prices all skirts at $33\frac{1}{3}\%$ more than it pays for them. Which expression below shows how much customers are charged for a skirt that The Clothes House buys for \$36?

(1) $\$36 - (\frac{1}{3} \times \$36)$
 (2) $\$36 + (\frac{1}{3} \times \$36)$
 (3) $\$36 - (\$36 \div \frac{1}{3})$
 (4) $\$36 + (\$36 \div \frac{1}{3})$
 (5) None of the above

9. A camera that sold for \$290 last year is on sale for \$240 this year. Which expression below can be used to find the percent of *price decrease* of this camera during the past year?

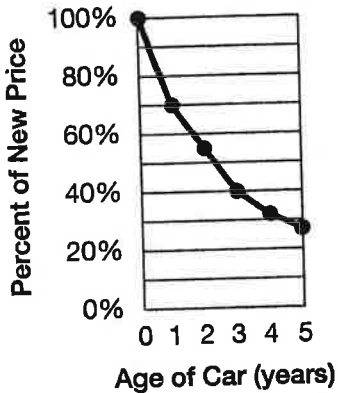
- (1) $\frac{\$240}{\$290} \times 100\%$
- (2) $\frac{\$290 - \$240}{\$240} \times 100\%$
- (3) $\frac{\$290 + \$240}{\$240} \times 100\%$
- (4) $\frac{\$290 - \$240}{\$290} \times 100\%$
- (5) $\frac{\$290 + \$240}{\$290} \times 100\%$

12. Carla borrowed \$2,960 from Lane Credit Union at a simple-interest rate of 10.25%. Which expression below gives the best estimate of the total amount Carla will owe Lane at the end of 1 year and 11 months?

- (1) $\$3,000 \times \frac{1}{10} \times 2$
- (2) $\$3,000 - (\$3,000 \times \frac{1}{10} \times 2)$
- (3) $\$3,000 + (\$3,000 \times \frac{1}{10} \times 2)$
- (4) $\$3,000 + (\$3,000 \times \frac{1}{100} \times 2)$
- (5) $\$3,000 + (\$3,000 \times 10 \times 2)$

Problems 10–11 refer to the graph below.

Average Car Trade-in Value



10. What is the approximate trade-in value after 1 year of a car that cost \$13,800 when new?

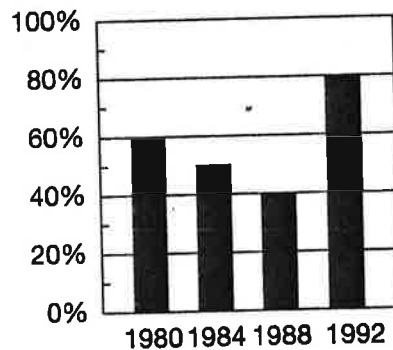
- (1) \$8,540
- (2) \$9,660
- (3) \$10,850
- (4) \$11,320
- (5) \$12,400

11. Approximately what was the original purchase price of a car that has a trade-in value of \$7,500 when it is 3 years old?

- (1) \$12,575
- (2) \$14,250
- (3) \$15,725
- (4) \$16,840
- (5) \$18,750

Problems 13–14 refer to the graph below.

Voter Turnout Rate in Benson County (recent presidential election years)



13. If Benson County had 68,400 registered voters in 1984, how many of these people did *not* vote in the 1984 election?

- (1) 21,080
- (2) 27,360
- (3) 34,200
- (4) 41,040
- (5) 47,800

14. In 1992, 66,400 Benson County residents voted in the presidential election. How many total people were registered to vote in Benson County that year?

- (1) 53,120
- (2) 68,000
- (3) 74,850
- (4) 78,000
- (5) 83,000

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- (1) $133 \div 0.35$
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#1

2. Which of the following has (have) the same value as 40%?

- A. 4 B. 0.4 C. $\frac{2}{5}$ D. $\frac{4}{5}$

- (1) A and C only
 (2) B and C only
 (3) A and D only
 (4) B and D only
 (5) B only

#2

3. Fortrell Lumber Company announced that it would rehire $66\frac{2}{3}\%$ of the 291 workers it laid off last year. How many workers are going to be rehired?

- (1) 67
 (2) 97
 (3) 138

- (4) 194
 (5) 224

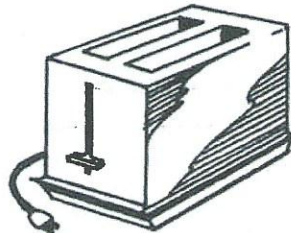
#4

$$\frac{2}{3} \times 291$$

4. Including the sales tax, what is the total cost of the toaster shown below?

5% Sales Tax on All Items

- (1) \$25.20
 (2) \$26.80
 (3) \$29.00
 (4) \$32.40
 (5) \$44.00



\$24.00

#1

$$.05 \times 24 = 1.20 + 24$$

5. For selling 25 sets of Children's Fairy Tales, Lynn was paid a \$200 commission. If her total sales receipts are \$1,250, what percent commission does Lynn earn?

- (1) 8%
 (2) 10%
 (3) 12%
 (4) 14%
 (5) 16%

$$\frac{200}{1250} = \frac{4}{25}$$

#5

6. When she bought a stove, Ming made a 20% down payment of \$82.50. What is the purchase price of Ming's new stove?

- (1) \$252.50
 (2) \$384.60
 (3) \$412.50
 (4) \$644.80
 (5) \$825.00

$$.2x = 82.50$$

#3

7. Clara placed \$650 in a savings account that pays 4% simple interest. How much interest will Clara earn from this account if she leaves her money in for 18 months?

- (1) \$23
 (2) \$29
 (3) \$35
 (4) \$39
 (5) \$42

$$.04 \times 650 = 26/yr$$

$$26 \times 1\frac{1}{2} =$$

\$39

#4

8. The Clothes House prices all skirts at $33\frac{1}{3}\%$ more than it pays for them. Which expression below shows how much customers are charged for a skirt that The Clothes House buys for \$36?

(1) $\$36 - (\frac{1}{3} \times \$36)$

(2) $\$36 + (\frac{1}{3} \times \$36)$

#2

(3) $\$36 - (\$36 \div \frac{1}{3})$

(4) $\$36 + (\$36 \div \frac{1}{3})$

- (5) None of the above

9. A camera that sold for \$290 last year is on sale for \$240 this year. Which expression below can be used to find the percent of *price decrease* of this camera during the past year?

- (1) $\frac{\$240}{\$290} \times 100\%$
- (2) $\frac{\$290 - \$240}{\$240} \times 100\%$
- (3) $\frac{\$290 + \$240}{\$240} \times 100\%$
- (4) $\frac{\$290 - \$240}{\$290} \times 100\%$
- (5) $\frac{\$290 + \$240}{\$290} \times 100\%$

#4

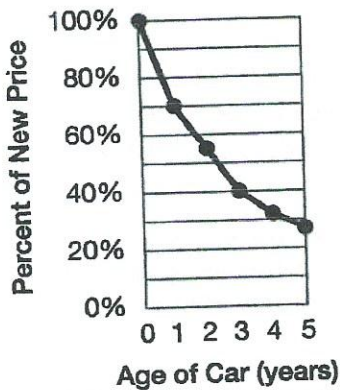
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- (3) $\$3,000 + (\$3,000 \times \frac{1}{10} \times 2)$
- (4) $\$3,000 + (\$3,000 \times \frac{1}{100} \times 2)$
- (5) $\$3,000 + (\$3,000 \times 10 \times 2)$

#1

Problems 10-11 refer to the graph below.

Average Car Trade-in Value



10. What is the approximate trade-in value after 1 year of a car that cost \$13,800 when new?

- (1) \$8,540
- (2) \$9,660
- (3) \$10,850
- (4) \$11,320
- (5) \$12,400

$.7 \times 13800$

#2

11. Approximately what was the original purchase price of a car that has a trade-in value of \$7,500 when it is 3 years old?

- (1) \$12,575
- (2) \$14,250
- (3) \$15,725
- (4) \$16,840
- (5) \$18,750

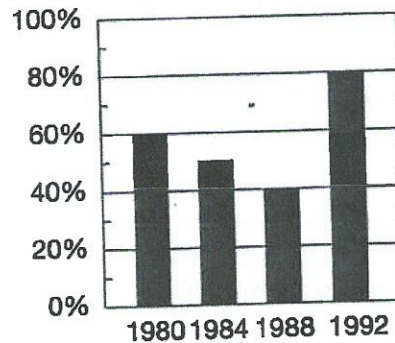
$.4x = 7500$

$x = 7500 \div 0.4$

#5

Problems 13-14 refer to the graph below.

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- (1) 21,080
- (2) 27,360
- (3) 34,200
- (4) 41,040
- (5) 47,800

$50\% \text{ of } 68400$

#3

14. In 1992, 66,400 Benson County residents voted in the presidential election. How many total people were registered to vote in Benson County that year?

- (1) 53,120
- (2) 68,000
- (3) 74,850
- (4) 78,000
- (5) 83,000

$80\% \text{ of } x = 66,400$

#5