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**Question 1:**

If Lynn can type a page in  $p$  minutes, what piece of the page can she do in 5 minutes?

- (A)  $5/p$
- (B)  $p-5$
- (C)  $p + 5$
- (D)  $p/5$
- (E)  $1-p+5$

**Correct Answer:**

(A)  $5/p$

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**Question 2:**

If Sally can paint a house in 4 hours, and John can paint the same house in 6 hour, how long will it take for both of them to paint the house together?

- (A) 2 hours and 24 minutes
- (B) 3 hours and 12 minutes
- (C) 3 hours and 44 minutes
- (D) 4 hours and 10 minutes
- (E) 4 hours and 33 minutes

**Correct Answer:**

(A) 2 hours and 24 minutes

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**Question 3:**

Employees of a discount appliance store receive an additional 20% off of the lowest price on an item. If an employee purchases a dishwasher during a 15% off sale, how much will he pay if the dishwasher originally cost  $\$450$ ?

- (A)  $\$280.90$
- (B)  $\$287.00$
- (C)  $\$292.50$
- (D)  $\$306.00$
- (E)  $\$333.89$

**Correct Answer:**

(D)  $\$306.00$

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**Question 4:**

The sales price of a car is  $\$12,590$ , which is 20% off the original price. What is the original price?

- (A)  $\$14,310.40$
- (B)  $\$14,990.90$
- (C)  $\$15,290.70$
- (D)  $\$15,737.50$
- (E)  $\$16,935.80$

**Correct Answer:**

(D)  $\$15,737.50$

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**Question 5:**

Solve the following equation for A:  $\frac{2A}{3} = 8 + 4A$

- (A)  $-2.4$
- (B)  $2.4$
- (C)  $1.3$

(D) -1.3

(E) 0

**Correct Answer:**

(A) -2.4

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**Question 6:**

If Leah is 6 years older than Sue, and John is 5 years older than Leah, and the total of their ages is 41. Then how old is Sue?

(A) 8

(B) 10

(C) 14

(D) 19

(E) 21

**Correct Answer:**

(A) 8

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**Question 7:**

Alfred wants to invest  $\$4,000$  at 6% simple interest rate for 5 years. How much interest will he receive?

(A)  $\$240$

(B)  $\$480$

(C)  $\$720$

(D)  $\$960$

(E)  $\$1,200$

**Correct Answer:**

(E)  $\$1,200$

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**Question 8:**

Jim is able to sell a hand-carved statue for  $\$670$  which was a 35% profit over his cost. How much did the statue originally cost him?

- (A)  $\$496.30$
- (B)  $\$512.40$
- (C)  $\$555.40$
- (D)  $\$574.90$
- (E)  $\$588.20$

**Correct Answer:**

- (A)  $\$496.30$

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**Question 9:**

The city council has decided to add a 0.3% tax on motel and hotel rooms. If a traveler spends the night in a motel room that costs  $\$55$  before taxes, how much will the city receive in taxes from him?

- (A) 10 cents
- (B) 11 cents
- (C) 15 cents
- (D) 17 cents
- (E) 21 cents

**Correct Answer:**

- (D) 17 cents

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**Question 10:**

A student receives his grade report from a local community college, but the GPA is smudged. He took the following classes: a 2 hour credit art, a 3 hour credit history, a 4 hour credit science course, a 3 hour credit mathematics course, and a 1 hour science lab. He received a "B" in the art class, an "A" in the history class, a "C" in the science class, a "B" in the mathematics class, and an "A" in the science lab. What was his GPA if the letter grades are based on a 4 point scale? (A=4, B=3, C=2, D=1, F=0)

(A) 2.7

(B) 2.8

(C) 3.0

(D) 3.1

(E) 3.2

**Correct Answer:**

(C) 3.0

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**Question 11:**

Simon arrived at work at 8:15 A.M. and left work at 10:30 P.M. If Simon gets paid by the hour at a rate of  $\$10$  and time and  $\frac{1}{2}$  for any hours worked over 8 in a day. How much did Simon get paid?

(A)  $\$120.25$

(B)  $\$160.75$

(C)  $\$173.75$

(D)  $\$180.00$

(E)  $\$182.50$

**Correct Answer:**

(C)  $\$173.75$

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**Question 12:**

Grace has 16 jellybeans in her pocket. She has 8 red ones, 4 green ones, and 4 blue ones. What is the minimum number of jellybeans she must take out of her pocket to ensure that she has one of each color?

- (A) 4
- (B) 8
- (C) 12
- (D) 13
- (E) 16

**Correct Answer:**

- (D) 13

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**Question 13:**

If  $r = 5z$  then  $15z = 3y$ , then  $r =$

- (A)  $y$
- (B)  $2y$
- (C)  $4y$
- (D)  $10y$
- (E)  $15y$

**Correct Answer:**

- (A)  $y$

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**Question 14:**

If 300 jellybeans cost you  $x$  dollars. How many jellybeans can you purchase for 50 cents at the same rate?

- (A)  $150/x$
- (B)  $150x$
- (C)  $6x$
- (D)  $1500/x$
- (E)  $600x$

**Correct Answer:**

(A)  $150/x$

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**Question 15:**

Lee worked 22 hours this week and made  $\$132$ . If she works 15 hours next week at the same pay rate, how much will she make?

(A)  $\$57$

(B)  $\$90$

(C)  $\$104$

(D)  $\$112$

(E)  $\$122$

**Correct Answer:**

(B)  $\$90$

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**Question 16:**

If  $8x + 5x + 2x + 4x = 114$ , the  $5x + 3 =$

(A) 12

(B) 25

(C) 33

(D) 47

(E) 86

**Correct Answer:**

(C) 33

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**Question 17:**

You need to purchase a textbook for nursing school. The book cost 80.00, and the sales tax where you are purchasing the book is 8.25. How much change will you receive back?

- (A) 15.20
- (B) 17.35
- (C) 113.40
- (D) 119.95
- (E) 121.25

**Correct Answer:**

- (C) 113.40

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**Question 18:**

You purchase a car making a down payment of 3,000 and 6 monthly payments of 225. How much have you paid so far for the car?

- (A) 3225
- (B) 4350
- (C) 5375
- (D) 6550
- (E) 6398

**Correct Answer:**

- (B) 4350

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**Question 19:**

Your supervisor instructs you to purchase 240 pens and 6 staplers for the nurse's station. Pens are purchased in sets of 6 for 2.35 per pack. Staplers are sold in sets of 2 for 12.95. How much will purchasing these products cost?



(A) 132.85

(B) 145.75

(C) 162.90

(D) 225.25

(E) 226.75

**Correct Answer:**

(A) 132.85

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**Question 20:**

If  $y = 3$ , then  $y^3(y^3 - y) =$

(A) 300

(B) 459

(C) 648

(D) 999

(E) 1099

**Correct Answer:**

(C) 648

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