

Examrace

Basic Algebra: Practice Questions Competitive Exams

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1. 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

Answer: d

2. Solve the following equation for A: $2A/3 = 8 + 4A$
 - a. -2.4
 - b. 2.4
 - c. 1.3
 - d. -1.3
 - e. 0

Answer: a

3. If Lee is 6 years older than her sister, Sue, and John is 5 years older than Lee, and the total of their ages is 41. Then how old is Sue?
 - a. 8
 - b. 10
 - c. 14
 - d. 19
 - e. 21

Answer: a

4. Alita 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

Answer: e

5. 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

Answer: a

6. 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

Answer: d

7. If Lily 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. $1 - p + 5$

Answer: a

8. If Larry 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

Answer: a

9. 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
 - c. \$ 292.50
 - d. \$ 306
 - e. \$ 333.89

Answer: d

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

Answer: c

11. Ben arrived at work at 8: 15 A. M. And left work at 10: 30 P. M. If Ben 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 Ben get paid?

- a. \$ 120.25
- b. \$ 160.75
- c. \$ 173.75
- d. \$ 180
- e. \$ 182.50

Answer: c

12. Lily 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

Answer: b

13. If $8x + 5x + 2x + 4x = 114$, the $5x + 3 =$
- a. 12
 - b. 25
 - c. 33
 - d. 47
 - e. 86

Answer: c

14. You need to purchase a textbook for MBA school. The book cost \$ 80.00, and the sales tax where you are purchasing the book is 8.25 % . You have \$ 100. How much change will you receive back?
- a. \$ 5.20
 - b. \$ 7.35
 - c. \$ 13.40
 - d. \$ 19.95
 - e. \$ 21.25

Answer: c

15. 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

Answer: b

16. Grace has 16 apples in her pocket. She has 8 red ones, 4 green ones, and 4 blue ones. What is the minimum number of apples 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

Answer: d

17. If $r = 5z$ then $15z = 3y$, then $r =$
- a. y
 - b. $2y$
 - c. $5y$
 - d. $10y$
 - e. $15y$

Answer: a

18. If 300 apples cost you x dollars. How many apples can you purchase for 50 cents at the same rate?
- a. N/A
 - b. $150x$
 - c. $6x$
 - d. N/A
 - e. $1500x$

Answer: a

19. Your supervisor instructs you to purchase 240 pens and 6 staplers for the nurse's station. Pens are purchase 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

Answer: a

20. If $y = 3$, then $y^3 (y^3 - y) =$
- a. 300
 - b. 459
 - c. 648
 - d. 999
 - e. 1099

Answer: c

Frequently Asked Questions (FAQs)

Please give me the solution of question number 16

(- VI...@ on 04-Oct-2019)

1 Answer

it's a simple logic there are 16 apples of different colours namely red, blue and green. So it is obvious that she has to take out all the 16 apples to make sure that that there is at least one apple of each colour (Red, Blue and Green) and no particular coloured apple is left behind. Take another example you have 6 button in your pocket (red, blue and green) in order to get a button of each colour so that no particular coloured button is left behind you must take out all the 6 buttons from your pocket. For further understanding you may visit [DoorStepTutor](#).

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