

10. According to the passage, unsafe exhilaration is the result of:
- A. Driving
 - B. Reckless thrill seeking
 - C. Over stimulation
 - D. Elation
11. According to the passage, what causes danger resulting in driving accidents?
- A. Driving a motor cycle
 - B. Driving a sports car
 - C. Exhilaration
 - D. The attitude of the driver

Arithmetic Reasoning

1. Family Video stocks 1003 drama movies, 518 science fiction movies and 253 children's movies. How many more drama titles than children's titles does Family Video have in stock?
- A. 750
 - B. 1003
 - C. 485
 - D. 265
2. Mr. Vlastic needs to buy 2 pens each for the 17 students in his class. If pens come in packs of 6 and each pack costs \$2.35, what is the minimum amount that Mr. Vlastic must spend?
- A. \$11.75
 - B. \$14.10
 - C. \$7.05
 - D. \$15.00
3. Brandon earns \$1,050 a week and Brad earns \$160 a day. If both of them work 8 hours a day, 5 days a week who earns a higher hourly wage? How much higher is it?
- A. Brad; \$6.25
 - B. Brandon; \$6.25
 - C. Brad; \$10.00
 - D. Brandon; \$10.00

4. **Matthew's dad is 5 times as old as him. If the difference of their ages is 28, how old is Matthew?**

- A. 4
- B. 5
- C. 6
- D. 7

5. **Dana and Megan have to fill 500 envelopes for a charity. At the end of the morning Dana has filled $\frac{3}{20}$ of the envelopes and Megan has filled $\frac{1}{4}$ of them. How many envelopes have they filled together?**

- A. 75
- B. 125
- C. 200
- D. 50

6. **A school garden had been divided into $\frac{7}{8}$ square meter plots for students. If the area of the garden is 210 square meters, how many students can get plots?**

- A. 240
- B. 210
- C. 184
- D. 78

7. **300 school children went on a field trip. 30% of them were first graders, 45% second graders, and the rest were third graders. How many more first graders were there than third graders?**

- A. 5
- B. 15
- C. 30
- D. 45

8. **A dress that costs \$155.00 is on sale with a discount of 25%. What is the sale price of the dress?**

- A. \$38.75
- B. \$116.25
- C. \$130.00
- D. \$122.50

9. **Marlo pays \$750 rent each month. Bea's rent is 12% higher. What is the ratio of Marlo's rent to Bea's rent?**

- A. 5:6
- B. 15:16
- C. 25:28
- D. 25:26

10. A cake recipe calls for 5 cups of flour to bake 2 cakes. How many cups of flour will be needed to bake 7 cakes?

- A. 35
- B. 24.5
- C. 17.5
- D. 12

11. The scale of the model of a car is 1:24. If the full-size car is 12 ft long, how long is the model?

- A. 4 inches
- B. 5 inches
- C. 6 inches
- D. 7 inches

12. On the throw of a six-sided die, what is the probability that you will roll a number less than 3?

- A. $\frac{1}{2}$
- B. $\frac{1}{6}$
- C. $\frac{1}{3}$
- D. $\frac{2}{3}$

13. A bag contains 6 black marbles and 4 white marbles. Sally takes out a black marble and does not put it back. What is the probability that the next marble she picks will also be black?

- A. $\frac{6}{10}$
- B. $\frac{9}{25}$
- C. $\frac{1}{2}$
- D. $\frac{5}{9}$

14. Mangoes are sold at \$8.40 a dozen. How much will 15 mangoes cost?

- A. \$12.60
- B. \$11.50
- C. \$10.70
- D. \$10.50

15. Rosita buys 300 feet of yarn for a craft project. If the yarn costs 12 cents a yard, how much does Rosita spend?

- A. \$36.00
- B. \$1,200.00
- C. \$360.00
- D. \$12.00

16. Mrs. Lafferty's 5 children are 6, 8, 14, 15, and 17 years old. What is their average age?

- A. 14
- B. 13
- C. 12
- D. 11

Mathematics Knowledge

1. $\frac{10!}{7!}$ is equal to:

- A. 6
- B. 61
- C. 120
- D. 720

2. $\frac{6^4}{6^3 \times 6^2} = ?$

- A. 6
- B. 6^9
- C. 6^{-1}
- D. 6^5

3. $\sqrt[3]{64} = ?$

- A. 9
- B. 4
- C. 6
- D. 8

4. $2(5 - \sqrt{16}) \div (14 - 12) \times 3 = ?$

- A. 3
- B. 20
- C. 32
- D. -4

5. Solve for a:
 $7a + 2 = 3a - 5 + 2a$

- A. -2
- B. 2
- C. $-3\frac{1}{2}$
- D. $3\frac{1}{4}$

6. Solve for x:
 $5(2x - 1) = 3(4x + 3)$

- A. $\frac{1}{6}$
- B. -7
- C. 2
- D. -3

7. Evaluate the expression
 $(x + y)^3 - 5x + 7y$,
if $x = 0$ and $y = 3$.

- A. 48
- B. 102
- C. 84
- D. -8

8. Solve: $3 + 6x \leq 3x - 3$

- A. $x \geq -2$
- B. $x \leq -2$
- C. $x \leq 0$
- D. $x \geq 1$

9. What is the name of a quadrilateral with four equal sides?

- A. Trapezoid
- B. Parallelogram
- C. Rhombus
- D. Pentagon

10. A 55° angle is:

- A. A right angle
- B. An acute angle
- C. An obtuse angle
- D. An exterior angle

11. **An isosceles triangle:**
- A. Has no equal sides
 - B. Has two equal angles
 - C. Has no acute angles
 - D. Has two obtuse angles

12. **The side of an equilateral triangle is 20 cm. Its perimeter is:**

- A. 20 cm
- B. 40 cm
- C. 60 cm
- D. 80 cm

13. **The area of a rectangle is 144 in^2 . If the length of the rectangle is 16 in., what is its width?**

- A. 3 in.
- B. 5 in.
- C. 9 in.
- D. 12 in.

14. **The circumference of a circle is equal to 10π cm. Its radius is:**

- A. 10 cm
- B. 7.5 cm
- C. 5 cm
- D. 10π cm

15. **How much will it cost to paint a circular patio of radius 7 m if the cost of the paint per square meter is \$2.00?**

- A. \$308.00
- B. \$154.00
- C. \$77.00
- D. \$616.00

16. **A rectangular box has a length of 7 ft, a width of 3 ft, and a height of 2 ft. What is its volume?**

- A. 67 ft^3
- B. 42 ft^3
- C. 42 ft^2
- D. 24 ft^3