Free TEAS 7 Math Practice Test

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Name: _____ **Date:** _____

Circle one answer for each multiple-choice question. For Questions 9 and 11, write the numbers in order. Check your answers on page 11 when you finish.

1. $7\frac{5}{6} \div 2\frac{2}{3} = ?$ Leave your answer as a mixed number.

A. $2\frac{13}{16}$ **B.** $3\frac{1}{16}$

C. $2\frac{15}{16}$ **D.** $2\frac{7}{8}$

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2. $\frac{5}{6} \div \frac{2}{7} \times \frac{3}{4} = ?$ Leave your answer as a fraction.

A. $\frac{35}{18}$ **B.** $\frac{35}{16}$

C. $\frac{33}{16}$ **D.** $\frac{15}{14}$

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3. $0.0321 \times 4.1987 = ?$ Round your final answer to the nearest thousandth.

A. 0.135 **B.** 0.133

C. 0.134 **D.** 0.136

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4. $5\frac{3}{4} - 2\frac{1}{6} = ?$ Leave your final answer as a simplified mixed number.

A. $3\frac{7}{12}$ **B.** $3\frac{5}{12}$

C. $7\frac{11}{12}$ **D.** $3\frac{1}{2}$

Questions 5–10

5. $\frac{5}{8} \div \frac{3}{2} = ?$ Leave your final answer as a simplified fraction.

A. $\frac{15}{16}$
B. $\frac{5}{6}$
C. $\frac{5}{16}$
D. $\frac{5}{12}$

6. $20 \div 4 \times (3 + 2) = ?$

A. 5
B. 25
C. 100
D. 1

7. Convert 0.032 to a percent.

A. 0.32%
B. 3.2%
C. 32%
D. 0.032%

8. $\frac{3}{8} - \frac{2}{5} + 1\frac{3}{4} \times \frac{7}{5} = ?$ Leave your final answer as a simplified mixed number.

A. $2\frac{1}{2}$
B. $3\frac{17}{40}$
C. $2\frac{17}{40}$
D. $2\frac{9}{40}$

9. Arrange the numbers from greatest to least: $\frac{9}{8}, \frac{7}{3}, \frac{5}{4}, \frac{5}{6}, \frac{17}{12}$

10. $2.58 + 3.071 \times 1.2 = ?$

A. 6.2652
B. 6.27
C. 5.2652
D. 6.78

Questions 11–15

11. Arrange from greatest to least: -1, $-\frac{3}{2}$, 1.1, 13%, $\frac{9}{10}$, 0.09, 115%

12. It has been reported that the revenue of a particular tablet in 2015 was approximately $54 million dollars. That same tablet produced only $46 million dollars in sales in 2016. What is the percent of decrease in sales for this tablet from 2015 to 2016? Round to the nearest percent.

A. 14%
B. 18%
C. 17%
D. 15%

13. Michael shot 50 free throws as practice before the championship game since it is known that free throw percentage can really determine the outcome of a basketball game. He missed 6 free throws. What percentage of the attempted free throws did Michael make?

A. 92%
B. 86%
C. 12%
D. 88%

14. Jose wins big on a scratch-off ticket. After paying 25% in taxes and paying off his car loan of $23,000, he has $22,000 left. What was the grand prize of the scratch-off before taxes were applied and before Jose paid off his car loan?

A. $45,000
B. $75,000
C. $60,000
D. $56,250

15. If $3x + 6 = 18$, what is $10x - 2$?

A. 58
B. 38
C. 120
D. 40

Questions 16–20

16. Solve the equation for x. $3x - 4 = 2(7x - 6)$

A. 1
B. $\frac{4}{11}$
C. $\frac{8}{11}$
D. $\frac{11}{8}$

17. $\frac{4}{5}x - 5 = \frac{2}{3}x + 2$ Solve for x.

A. 105
B. 52.5
C. 35
D. 42

18. Four more than twice a number "a", is 5 less than half another number, "b". Write an equation that models this.

A. $4 + 2a = 5 - \frac{b}{2}$
B. $2(a + 4) = \frac{b - 5}{2}$
C. $2a + 4 = \frac{b}{2} - 5$
D. $2a - 4 = \frac{b}{2} + 5$

19. The table below shows the cost to rent a paddleboat at a park beside a lake. Write an equation that models the cost, C, for the time in hours, h, that the paddleboat is rented.

Hours Rented	1	2	3
Costs	$4.50	$9.00	$13.50

A. $h = 4.50C$
B. $C = 4.50 + h$
C. $C = 4.50h$
D. $C = \frac{h}{4.50}$

20. One of the heaviest babies ever born was approximately 10.2 kg. Given that 1 kg is approximately 2.2 lbs, how many pounds did the infant weigh? Round your answer to the nearest tenth of a pound.

A. 12.4
B. 8.0
C. 20.4
D. 22.4

Questions 21–24

21. A cylinder has a diameter of 12 inches at its base. The height of the cylinder is 1.25 feet. What is the volume of the cylinder in cubic inches? Use 3.14 for π and round your answer to the nearest cubic inch.

A. 141
B. 565
C. 424
D. 1696

22. While spending their wedding moon in Jamaica, a couple had to travel from Montego Bay to Negril. The GPS showed a travel distance of 81 km. To the nearest whole number, how many miles did they travel from Montego Bay to Negril? (0.62 miles is approximately 1 km)

A. 50
B. 131
C. 62
D. 81

23. The weight limit at a weigh station for an 18-wheeler is 40 tons, which includes the weight of the truck and all material on-board. Jack is driving an 18-wheeler (with trailer) that weighs about 32,000 pounds without any cargo on board. He is hauling market pigs this week. If the average weight of a market pig is 250 pounds, about how many pigs can Jack carry on the 18-wheeler and stay within the weight regulations? (1T = 2000lbs)

A. 192
B. 320
C. 160
D. 128

24. A blueprint of the living room in a newly built home is sketched at a scale where one inch on the blueprint equals five feet in the actual room. The area of the rectangular living room on the sketch is 20 in^2. What is the true area of the living room (in square feet)?

A. 100
B. 500
C. 2500
D. 400

Questions 25–28

25. Brett wants to sound proof his studio, which is in the shape of a box. He will cover all 4 walls, the floor and the ceiling with the sound proof padding material. If the floor's dimensions are 15 ft × 20 ft and the height of the room is 10 ft tall, how much will Brett spend on padding that costs $2.50 per square foot?

A. $3,250
B. $2,750
C. $3,750
D. $1,625

26. Carlos has a budget of $2500 and he needs to purchase new laptops and cameras for the IT department. If the quoted price of a laptop is $450 and a camera is $65, write an inequality that can be used to find the various numbers of laptops (l) and cameras (c) that Carlos can purchase, excluding tax.

A. $450l + 65c \leq 2500$
B. $450l + 65c \geq 2500$
C. $450l + 65c < 2500$
D. $515(l + c) \leq 2500$

27. Kumar can buy 3 burgers and 2 medium fries for $10.00 from a fast food restaurant. Harold can buy 2 burgers and 3 medium fries for $8.75 from the same restaurant. How much will 1 burger and 1 medium fry cost?

A. $4.00
B. $5.00
C. $3.75
D. $3.50

28. A 60" 4k television is on sale for Black Friday. The original price was $899.99, but the ad states to take 30% off the original price. What is the sale price, excluding tax? Round to the nearest dollar.

A. $870
B. $270
C. $600
D. $630

Questions 29–32

29. Ashley needs a pair of shoes for running and another pair for work. The local shoe store has a sale this week. The sale states that you can buy one pair of shoes and get 40% off a second pair of equal or lesser value. The running shoes retail for $75 and the work shoes she would like retail for $58. How much, to the nearest dollar will Ashley spend, excluding tax, on both pairs of shoes if she takes advantage of the sale?

A. $110
B. $98
C. $80
D. $133

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30. The light bills over the past 6 months for the Forest family were the following: $125, $156, $132, $175, $140, $115. What is the average light bill for the Forest family over these 6 months?

A. $136.00
B. $140.50
C. $145.50
D. $843.00

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31. Referring back to the Forest family's light bills, what is the median of their light bills for the past 6 months?

A. $138
B. $140.50
C. $136
D. $132

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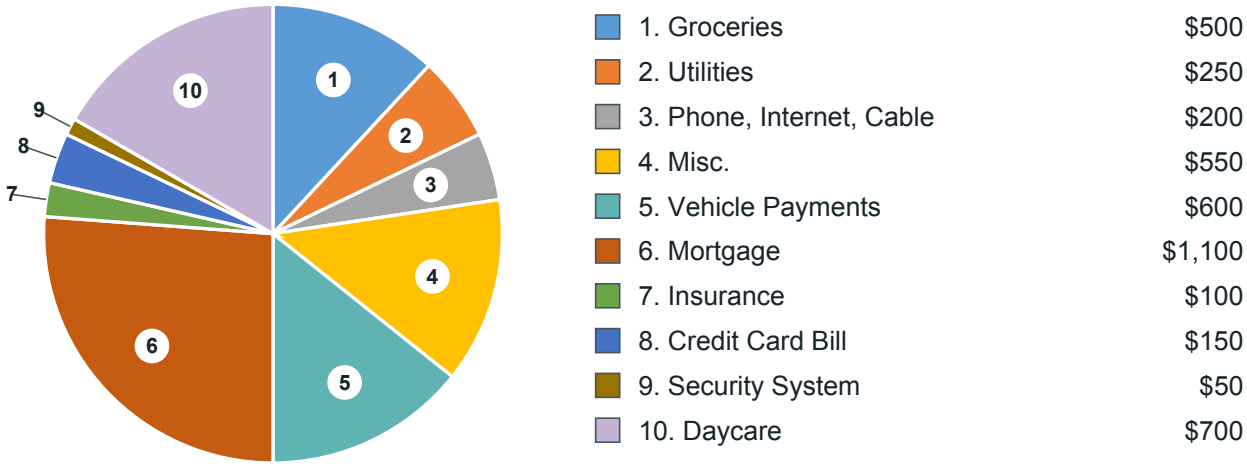
32. Carla runs a small business where she makes artificial flower arrangements. A customer has placed a large order for 100 identical arrangements. Carla has made a list of supplies that she needs to make the entire order. Each arrangement needs a plastic molding. It will cost Carla $3.25 for each plastic molding. She also needs 4 packages of colored netting, which sell for $15.00 each. However, the company she orders from has a special on the netting packages. If you buy 3 packages of netting, you get a package for free. Polyester fabric is another item she will need. She needs 180 square feet of polyester fabric that sells for $5.20 per square yard. Lastly she needs artificial stems. She will need 6 stems per arrangement and they are sold in packs of 10. The cost for one pack of artificial stems is $2.50. If Carla sells each arrangement for $20.00, how much money will Carla make off the order once she subtracts her expenses for the supplies?

A. $1,104
B. $1,376
C. $624
D. $1,520

Questions 33–34

33. The Johnson's family monthly budget is shown in the pie chart below. What percent of their monthly budget is spent on groceries? Round to the nearest percent.

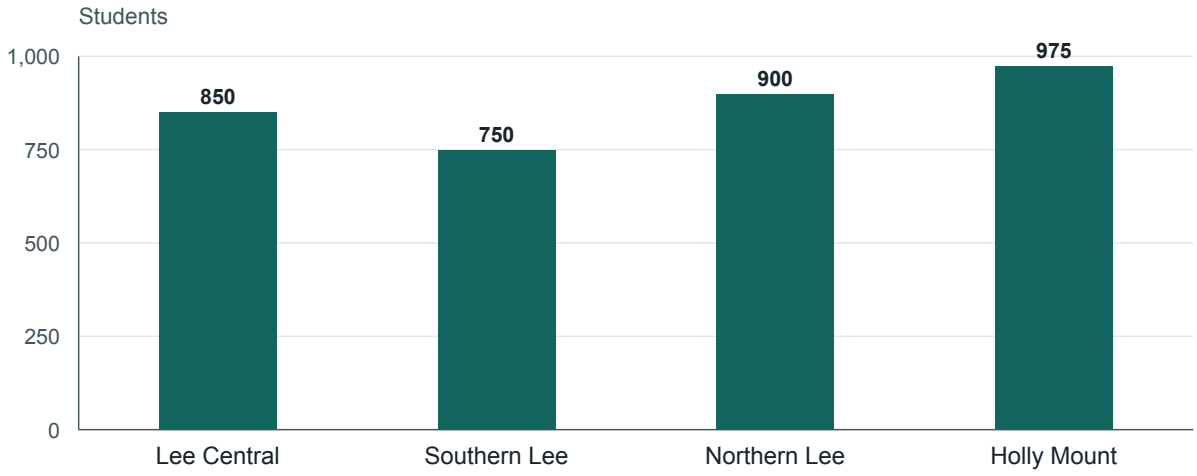
Johnson Family Monthly Budget



A. 15%
B. 12%
C. 18%
D. 10%

34. There are four high schools in Lee County. The enrollment numbers are given in the graph below. What is the approximate percentage of high school students in Lee County that attends Lee Central High School? Round to the nearest tenth of a percent.

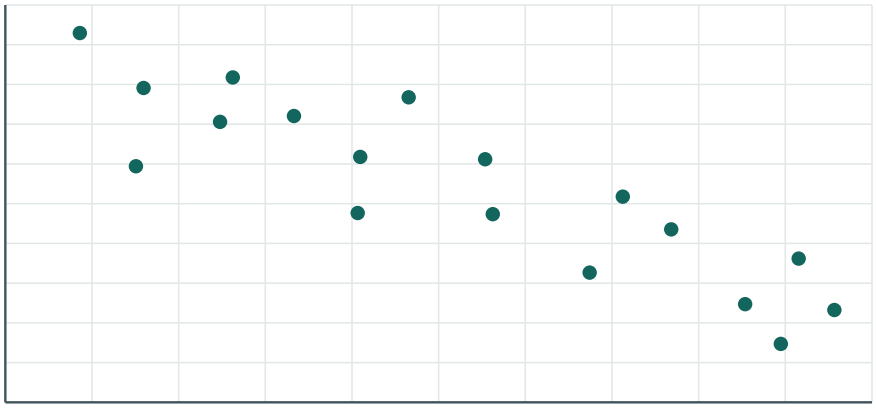
Lee County High School Enrollment



A. 24.5%
B. 30.2%
C. 27.3%
D. 20.0%

Questions 35–36

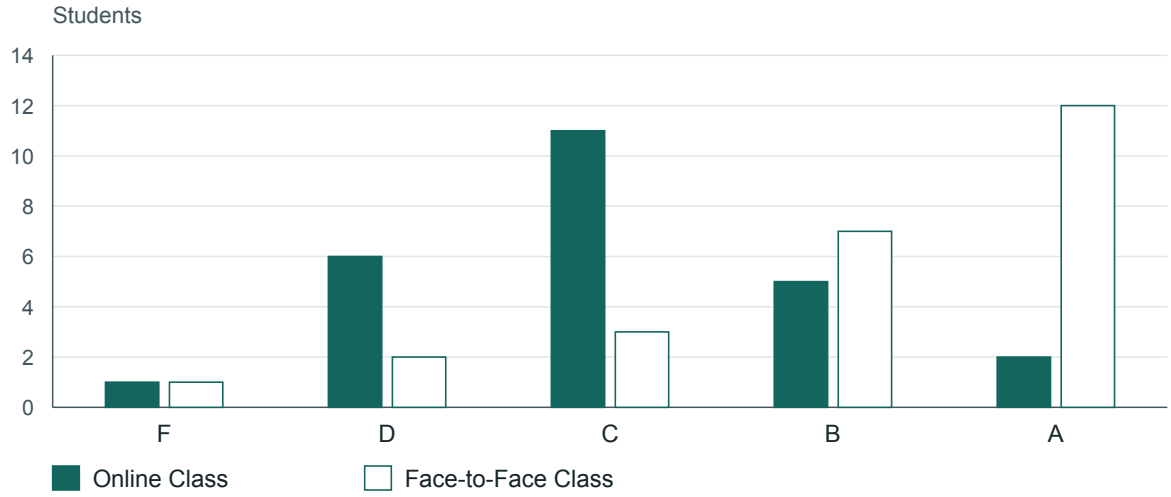
35. What type of relationship appears to exist in the graph below?



A. exponential
B. positive
C. no correlation
D. negative

36. Comment on the shape of the distribution for the final grades of Mr. Craft's online students and face-to-face students in a College Algebra class.

Final Grades by Class Format



A. Online is symmetric, Face-to-face is right-skewed
B. Online is right-skewed, Face-to-face is symmetric
C. Online is left-skewed, Face-to-face is symmetric
D. Online is symmetric, Face-to-face is left-skewed

Questions 37–38

37. A shipment of computer chips has 2,619 non-defective computer chips, and 3% of all the computer chips in the shipment are defective. How many computer chips are in the shipment? Round to the nearest whole number as needed.

A. 2,619
B. 2,698
C. 2,700
D. 2,540

38. Which of the following could not be the measures of the sides of a right triangle?

A. 5 cm, 12 cm, 13 cm
B. 8 in, 17 in, 15 in
C. 35 ft, 12 ft, 37 ft
D. 53 m, 45 m, 26 m

Answer Key & Video Solutions

Questions 1–9 | Scan a code on paper or click Watch solution in the PDF.

1. **C.** $2\frac{15}{16}$

Watch solution

2. **B.** $\frac{35}{16}$

Watch solution

3. **A.** 0.135

Watch solution

4. **A.** $3\frac{7}{12}$

Watch solution

5. **D.** $\frac{5}{12}$

Watch solution

6. **B.** 25

Watch solution

7. **B.** 3.2%

Watch solution

8. **C.** $2\frac{17}{40}$

Watch solution

9. $\frac{7}{3}, \frac{17}{12}, \frac{5}{4}, \frac{9}{8}, \frac{5}{6}$

Watch solution

Answer Key & Video Solutions

Questions 10–18 | Scan a code on paper or click Watch solution in the PDF.

10. **A.** 6.2652

Watch solution

11. 115%, 1.1, $\frac{9}{10}$, 13%, 0.09, −1, $-\frac{3}{2}$

Watch solution

12. **D.** 15%

Watch solution

13. **D.** 88%

Watch solution

14. **C.** $60,000

Watch solution

15. **B.** 38

Watch solution

16. **C.** $\frac{8}{11}$

Watch solution

17. **B.** 52.5

Watch solution

18. **C.** $2a + 4 = \frac{b}{2} - 5$

Watch solution

Answer Key & Video Solutions

Questions 19–27 | Scan a code on paper or click Watch solution in the PDF.

19. **C.** $C = 4.50h$

Watch solution

20. **D.** 22.4

Watch solution

21. **D.** 1696

Watch solution

22. **A.** 50

Watch solution

23. **A.** 192

Watch solution

24. **B.** 500

Watch solution

25. **A.** $3,250

Watch solution

26. **A.** $450l + 65c \leq 2500$

Watch solution

27. **C.** $3.75

Watch solution

Answer Key & Video Solutions

Questions 28–36 | Scan a code on paper or click Watch solution in the PDF.

28. **D.** $630

Watch solution

29. **A.** $110

Watch solution

30. **B.** $140.50

Watch solution

31. **C.** $136

Watch solution

32. **B.** $1,376

Watch solution

33. **B.** 12%

Watch solution

34. **A.** 24.5%

Watch solution

35. **D.** negative

Watch solution

36. **D.** Online is symmetric, Face-to-face is left-skewed

Watch solution

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Answer Key & Video Solutions

Questions 37–38 | Scan a code on paper or click Watch solution in the PDF.

37. C. 2,700 computer chips

Watch solution

38. D. 53 m, 45 m, 26 m

Watch solution