1. Making a set of curtains, requires 3½ yards. How many yards of material are needed for 4 sets of curtains?
   ① 12 yards
   ② 13 yards
   ③ 13 $^{1}/_{3}$ yards
   ④ 14 yards
   ⑤ Not enough information given.

2. There are 40 students in Mrs. Trujillo's GED class. 10% are absent from class today. How many students are **in class** today?
   ① 4
   ② 30
   ③ 34
   ④ 36
   ⑤ Not enough information given.

3. Louie drove for 3 hours at an average speed of 18 mph and for 2 hours at 52 mph. Which of the following expresses the total distance he drove?
   ① (3 x 2) + (18 + 52)
   ② (3 x 18) + (2 x 52)
   ③ $^{18}/_{3}$ + $^{52}/_{2}$
   ④ (3 + 18) x (2 + 52)
   ⑤ 3(18 + 52) x 2

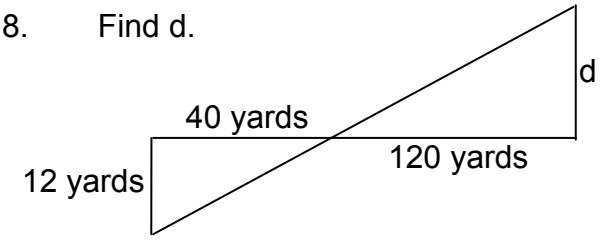
4. Eighteen boards, each 3.9 meters long, are laid end to end. How many total meters long are the boards?
   ① 21 meters
   ② 21.9 meters
   ③ 39 meters
   ④ 70.2 meters
   ⑤ 702 meters

5. Stella bought 4 pounds of apples at $1.25 a pound. She went back to the store and bought 5 more pounds of the apples at the same price. Which of the following expresses the **total** amount she paid for the apples?
   ① 1.25 x 4 x 5
   ② 1.25 + 4 + 5
   ③ 5 + (1.25 x 4)
   ④ 1.25(4 + 5)
   ⑤ (1.25 x 5) + 4

6. A box is 24 inches high and 36 inches wide. What is the **ratio** of its width to its height?
   ① 3:2
   ② 1:3
   ③ 2:3
   ④ 3:1
   ⑤ 1:2

7. The sales tax rate is 6%. How much **tax** would you owe for a cap that costs $2.50?
   ① $.06
   ② $.15
   ③ $2.56
   ④ $2.65
   ⑤ $2.75

8. Find d.



   ① 36 yards
   ② 44 yards
   ③ 100 yards
   ④ 112 yards
   ⑤ 400 yards

9. Find the square root of 289.

① 12

② 13

③ 17

④ 19

⑤ 20

10. Pauline worked two jobs last week. On one job, she was paid $4.50 per hour, and she worked 15 hours. On the other job, she made $5.50 per hour and worked 30 hours. Which expression shows how much she made last week?

① 15 ($4.50) + 30 ($4.50)

② 45 x $4.50 x $5.50

③ 15 ($4.50) + 30 ($5.50)

④ 15 ($5.50) + 30 ($4.50)

⑤ 15 + $4.50 + 30 + $5.50

11. Kevin's bowling scores for 5 games in a tournament were: 180, 228, 196, 149, 232. What was Kevin's **average (mean)** for the tournament?

	⊘	⊘	⊘	
⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

12. Carl cut 3 ¾ feet off a board 5 feet long. How much of the board is **left**?

① ¾ feet

② 1 ¼ feet

③ 1 ¾ feet

④ 2 ¼ feet

⑤ 2 ¾ feet

13. Simplify the expression $10^3 - 5^3$.

① 15

② 30

③ 875

④ 9,975

⑤ 10,025

14. Find the sales tax on 3 blouses if the tax rate is 6%.

① $.90

② $1.35

③ $1.80

④ $2.70

⑤ Not enough information given.

15. Jerry makes $6 an hour for the first seven hours of the work day and then $9 an hour for each additional hour. Which of the following expressions shows the **total** amount he makes in a ten hour workday?

① 7(9) + 3(6)

② 7(6) + 3(9)

③ 7 x 9 x 3 x 6

④ 10 x 7

⑤ 10 x 9

16. A butcher sliced a roast weighing 3.25 pounds from a leg of lamb that weighs 8 pounds. What is the weight of the **remaining** leg of lamb?

① 3.75 pounds
② 4.75 pounds
③ 5.75 pounds
④ 11.25 pounds
⑤ 3.1764 pounds

Questions 17 and 18 refer to the following information.

John received a shipment of jackets to sell in his store. The sizes were mixed together.

15 small jackets
25 medium jackets
20 large jackets

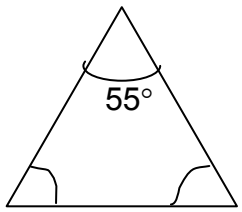
17. What is the **probability** that the first jacket John takes from the box is **large**?

① ½
② $^1/_3$
③ $^1/_6$
④ $^1/_{20}$
⑤ $^1/_{30}$

18. David took out two medium jackets and three large jackets from the box. What is the **probability** that the next jacket he takes from the box will be **small**?

① $^{15}/_{16}$
② $^1/_3$
③ $^3/_{11}$
④ ¼
⑤ $^1/_{15}$

19. In the isosceles triangle below, find the measurement of **each base** angle.



① 55º
② 62.5º
③ 70º
④ 110º
⑤ 140º

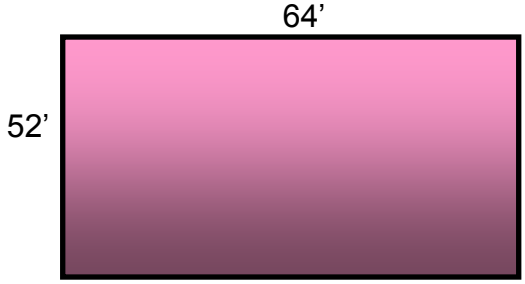
20. The following is the recorded rainfall in La Junta during June.

week 1	3.6 inches
week 2	2.45 inches
week 3	4.63 inches
week 4	3.84 inches

Find the **mean** weekly rainfall for that period.

① 3.48 inches
② 3.54 inches
③ 3.63 inches
④ 3.68 inches
⑤ 3.72 inches

21. Find the **perimeter.**



① 30'
② 43'
③ 116'
④ 232'
⑤ 430'

22. On a map, 1 inch = approximately 150 miles. La Junta is about 3 inches from Salt Lake City. How many **miles** apart are La Junta and Salt Lake City?

① 45 miles
② 300 miles
③ 450 miles
④ 4,500 miles
⑤ 45,000 miles

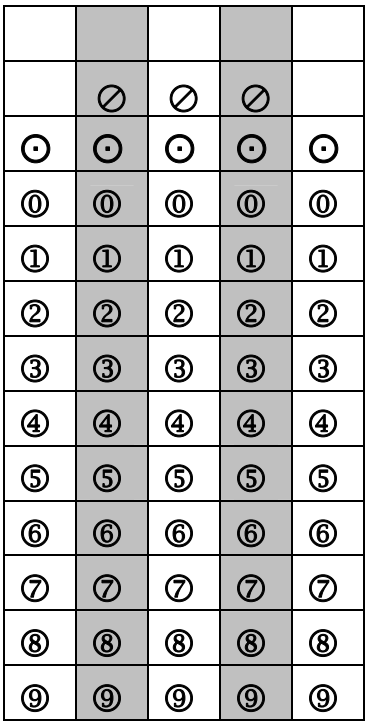
23. For the expression $5m < 50$, what is the value of m?

① 9 feet
② 10 feet
③ 11 feet
④ 12 feet
⑤ 15 feet

24. A yardstick's shadow is 7 feet. At the same time a tree's shadow is 42 feet. Find the **height of the tree**.

① 18'
② 49'
③ 51'
④ 81'
⑤ 126'

25. Jackson wants to fence his yard that is 18.5 feet long and 15.5 feet wide. How much **fencing** will he need if he plans to leave a 4 feet opening for a gate?



26. What is the value of 50^3?

① 200
② 1,000
③ 10,000
④ 125,000
⑤ 500,000

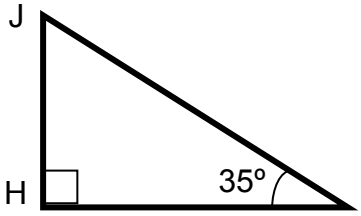
27. $\sqrt{225} + \sqrt{400}$

① 5
② 15
③ 20
④ 30
⑤ 35

28. $(.2)^2 + (.6)^2$

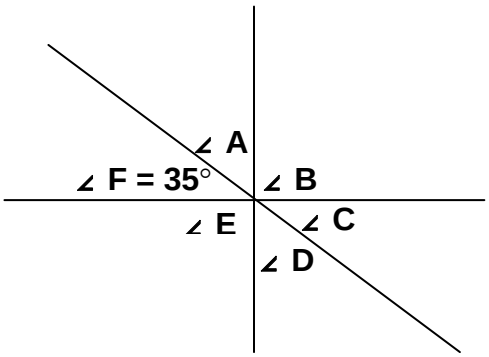
① 32
② . 40
③. 76
④ 1.6
⑤ 4.0

29. How many degrees is angle J?



① 45°
② 55°
③ 90°
④ 145°
⑤ 180°

QUESTIONS 30 THROUGH 33 REFER TO THE FOLLOWING DIAGRAM



30. How many degrees is ∠ E?

① 5°
② 55°
③ 90°
④ 125°
⑤ 180°

31. How many degrees is ∠ C?

① 9°
② 35°
③ 45°
④ 90°
⑤ 180°

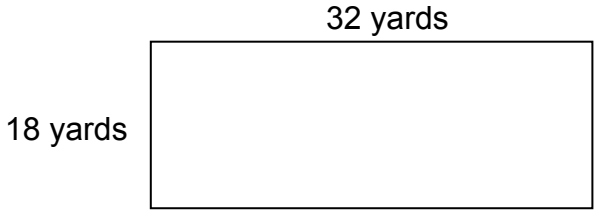
32. How many degrees is ∠ A?

① 35°
② 53°
③ 55°
④ 145°
⑤ 180°

33. How any degrees is ∠ B?

① 35°
② 53°
③ 90°
④ 145°
⑤ 180°

34. Which of the following expressions can be used to find the **perimeter** of this lawn?



① 2(32 – 18)
② 4(32 + 18)
③ 2(32) + 2(18)
④ (2)(32)(18)
⑤ (32)(18)

35. Sunny plans to install a fence around her garden. Each side is 37 feet, and she plans to leave a 3 foot opening for a gate. How much **fencing** does she need?

① 143 feet
② 145 feet
③ 148 feet
④ 151 feet
⑤ 152 feet

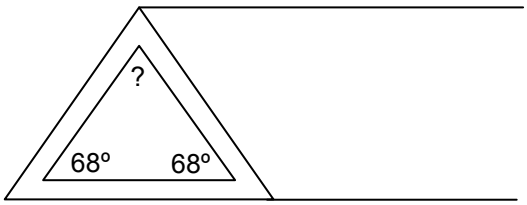
36. $\sqrt{324}$

① 10
② 12
③ 16
④ 18
⑤ 20

37. $\sqrt{144} + \sqrt{169}$

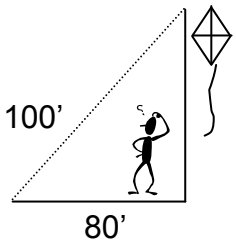
① 12
② 13
③ 20
④ 25
⑤ 35

38. In the roof gable shown below, determine the value of the angle indicated by the question mark.



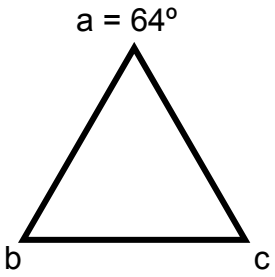
	⊘	⊘	⊘	
⊙	⊙	⊙	⊙	⊙
⓪	⓪	⓪	⓪	⓪
①	①	①	①	①
②	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

39. What is the distance from the ground to the top of the kite?



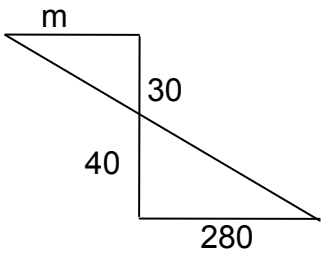
① 16 feet
② 60 feet
③ 180 feet
④ 3600 feet
⑤ 6400 feet

40. What are the values of angles b and c in the isosceles triangle below?



① B = 61º, C = 58º
② B = 58º, C = 58º
③ B = 61º, C = 61º
④ B = 58º, C = 61º
⑤ B = 60º, C = 60º

41. Find side m.

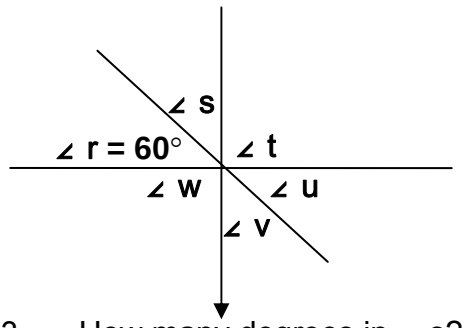


① 21
② 210
③ 2,800
④ 2,100
⑤ 21,000

42. Find the **mean** of the following: $14.50, $8.75, $16.25, $5.50

① $11.25
② $15.50
③ $22.00
④ $34.00
⑤ $44.00

QUESTIONS 43 – 46 REFER TO THE FIGURE BELOW



43. How many degrees in ∠ s?

① 30°
② 60°
③ 120°
④ 150°
⑤ 180°

44. How many degrees in ∠ u?

① 18°
② 30°
③ 60°
④ 90°
⑤ 120°

45. How many degrees in ∠ v?

① 30°
② 60°
③ 90°
④ 120°
⑤ 180°

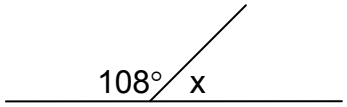
46. How many degrees in ∠ w?

① 15°
② 30°
③ 60°
④ 90°
⑤ 150°

47. Paul makes $650 a week. He saves 15%. How much does he **save**?

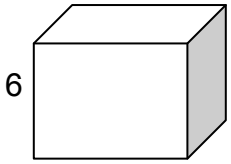
① $97.50
② $552.50
③ $635.00
④ $665.00
⑤ $975.00

48. What is the value of ∠ x?



① 72°
② 90°
③ 108°
④ 172°
⑤ 180°

49. Which expression shows the **volume** of this cube?

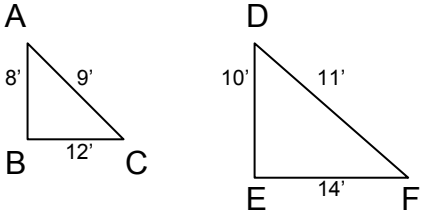


① 6 + 6
② 6 + 6 + 6
③ 6^2
④ 6^3
⑤ (6)(6) ÷ 6

50. The sales commission is 3%. How much commission does a salesperson earn by selling a $3,700 Harley Davidson?

① $11
② $37
③ $111
④ $370
⑤ $1110

51. What is the **ratio** of AB to DE?



① 5:4
② 2:3
③ 9:11
④ 4:5
⑤ 3:2

52. Which of the following expresses 576,328 in **scientific notation**?

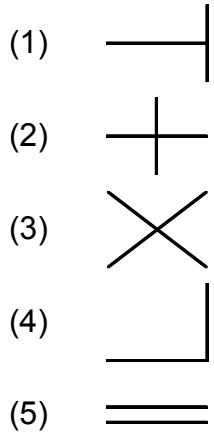
① 5.76328×10^5
② 5.76328×10^6
③ 57.6328×10^5
④ 57.6328×10^4
⑤ 576.328×10^5

53. If you are charged $1.00 for each mile you travel and $.15 for every tenth of a mile, how much would you be charged for 3.5 miles?

① $3.01
② $3.15
③ $3.25
④ $3.45
⑤ $3.75

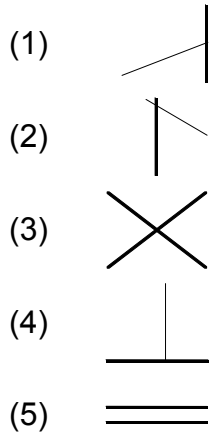
54. Which pair of line segments appears to be parallel?

① ② ③ ④ ⑤



① 1
② 2
③ 3
④ 4
⑤ 5

55. Which pair of line segments is perpendicular?



① 1
② 2
③ 3
④ 4
⑤ 5