Math Section > Practice Drill 2 –SSAT Upper-level

A. Read each question carefully. Choose and pick one answer ONLY. Don't forget to time yourself!

1. How many numbers between 1 and 100 are multiples of both 2 and 7?

(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

2. What is the smallest multiple of 7 that is greater than 50?

(A) 7 (B) 49 (C) 51 (D) 56 (E) 63

3. $2^3 \times 2^3 \times 2^2 =$ ___

(A) 64 (B) 2^8 (C) 2^{10} (D) 2^{16} (E) 2^{18}

4. For what integer value of *m* does $2m + 4 = m^3$**?**

(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

5. One-fifth of the students in a class chose recycling as the topic for their science projects. If four students chose recycling, how many students are in the class?

(A) 4 (B) 10 (C) 16 (D) 20 (E) 24

6. If $6x - 4 = 38$**, then** $x + 10 =$ ___

(A) 7 (B) 10 (C) 16 (D) 17 (E) 19

7. If $3x - 6 = 21$**, then what is** $x \div 9$**?**

(A) 0 (B) 1 (C) 3 (D) 6 (E) 9

8. Only one-fifth of the chairs in a classroom are in working order. If three additional working chairs are brought in, there are 19 working seats available. How many chairs were originally in the room?

(A) 16 (B) 19 (C) 22 (D) 80 (E) 95

9. If a harvest yielded 60 bushels of corn, 20 bushels of wheat, and 40 bushels of soybeans, what percent of the total harvest was corn?

(A) 50% (B) 40% (C) 33% (D) 30% (E) 25%

Exercises taken from The Princeton Review (2021) SSAT & ISEE Prep 2022. Penguin Random House. New York. US.
Adapted by Andrés Barón-Ávila
MA Education and Technology – UCL – IOE

LIVEWORKSHEETS

10. At a local store, an item that usually sells for $45 is currently on sale for $30. By what percent is that item discounted?

(A) 10% (B) 25% (C) 33% (D) 50% (E) 66%

11. Which of the following is most nearly 35% of $19.95?

(A) $3.50 (B) $5.75 (C) $7.00 (D) $9.95 (E) $13.50

12. Of the 50 hotels in the Hilltop Hotels chain, 5 have indoor swimming pools and 15 have outdoor swimming pools. What percent of all Hilltop Hotels have either an indoor or an outdoor swimming pool?

(A) 40% (B) 30% (C) 20% (D) 15% (E) 5%

13. For what price item does 40% off equal a $20 discount?

(A) $50.00 (B) $100.00 (C) $400.00 (D) $800.00 (E) None of them

14. A pair of shoes is offered on a special blowout sale. The original price of the shoes is reduced from $50 to $20. What is the percent change in the price of the shoes?

(A) 60% (B) 50% (C) 40% (D) 25% (E) 20%

15. Lisa buys a silk dress regularly priced at $60, a cotton sweater regularly priced at $40, and four pairs of socks regularly priced at $5 each. If the dress and the socks are on sale for 20% off the regular price and the sweater is on sale for 10% off the regular price, what is the total amount of her purchase?

(A) $90.00 (B) $96.00 (C) $100.00 (D) $102.00 (E) $108.00

16. Thirty percent of $17.95 is closest to ___.

(A) $2.00 (B) $3.00 (C) $6.00 (D) $9.00 (E) $12.00

17. Fifty percent of the 20 students in Mrs. Schweizer's third-grade class are boys. If 90 percent of these boys ride the bus to school, which of the following is the number of boys in Mrs. Schweizer's class who ride the bus to school?

(A) 9 (B) 10 (C) 12 (D) 16 (E) 18

18. On a test with 25 questions, Marc scored an 88 percent. How many questions did Marc answer correctly?

(A) 22 (B) 16 (C) 12 (D) 4 (E) 3

Exercises taken from The Princeton Review (2021) SSAT & ISEE Prep 2022. Penguin Random House. New York. US.
Adapted by Andrés Barón-Ávila
MA Education and Technology – UCL – IOE

LIVEWORKSHEETS

19. Four friends each pay $5 for a pizza every Friday night. If they were to start inviting a fifth friend to come with them and still bought the same pizza, how much would each person then have to pay?

(A) $1 (B) $4 (C) $5 (D) $20 (E) $25

20. A stop sign has 8 equal sides of length 4. What is its perimeter?

(A) 4 (B) 8 (C) 12 (D) 32 (E) It cannot be determined from the information given.

21. If the perimeter of a square is 56, what is the length of each side?

(A) 4 (B) 7 (C) 14 (D) 28 (E) 112

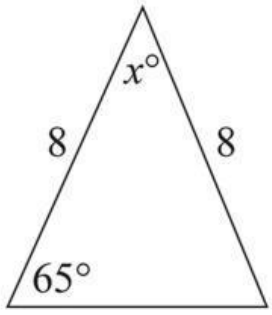
22. The perimeter of a square with a side of length 4 is how much less than the perimeter of a rectangle with sides of length 4 and width 6?

(A) 0 (B) 2 (C) 4 (D) 6 (E) 8

23. What is the perimeter of an equilateral triangle, one side of which measures 4 inches?

(A) 12 inches (B) 8 inches (C) 6 inches (D) 4 inches (E) It cannot be determined from the information given.

24. $\underline{x}$ = ___



(A) 8

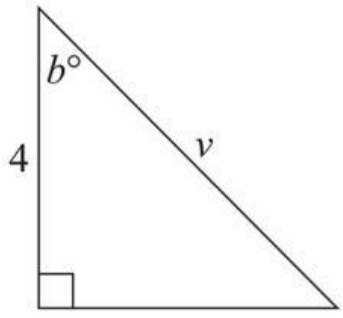
(B) 30

(C) 50

(D) 65

(E) 180

25. If $\underline{b = 45}$, then $\underline{v^2}$ = ___



(A) 32

(B) 25

(C) 16

(D) 5

(E) It cannot be determined from the information given.

Exercises taken from The Princeton Review (2021) SSAT & ISEE Prep 2022. Penguin Random House. New York. US.
Adapted by Andrés Barón-Ávila
MA Education and Technology – UCL – IOE

LIVEWORKSHEETS

26. One-half of the difference between the number of degrees in a square and the number of degrees in a triangle is ___.

(A) 45 (B) 90 (C) 180 (D) 240 (E) 360

27. If the area of a square is equal to its perimeter, what is the length of one side?

(A) 1 (B) 2 (C) 4 (D) 8 (E) 10

28. The area of a rectangle with width 4 and length 3 is equal to the area of a triangle with a base of 6 and a height of ___.

(A) 1 (B) 2 (C) 3 (D) 4 (E) 12

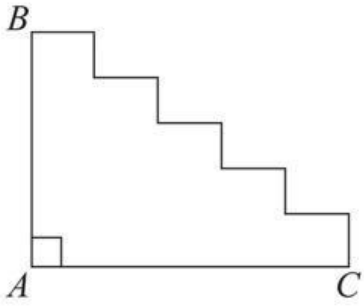
29. Two cardboard boxes have equal volume. The dimensions of one box are 3 × 4 × 10. If the length of the other box is 6 and the width is 4, what is the height of the second box?

(A) 2 (B) 5 (C) 10 (D) 12 (E) 24

30. If the area of a square is $64p^2$, what is the length of one side of the square?

(A) $64p^2$ (B) $64p$ (C) $8p^2$ (D) $8p$ (E) 8

31. If $\underline{AB = 10}$ and $\underline{AC = 15}$, what is the perimeter of the figure below?



(A) 25

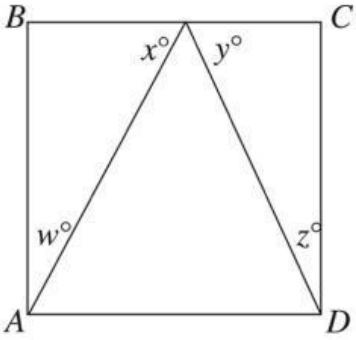
(B) 35

(C) 40

(D) 50

(E) It cannot be determined from the information given.

32. If $\underline{ABCD}$, shown below, is a rectangle, what is the value of $\underline{w + x + y + z}$?



(A) 90°

(B) 150°

(C) 180°

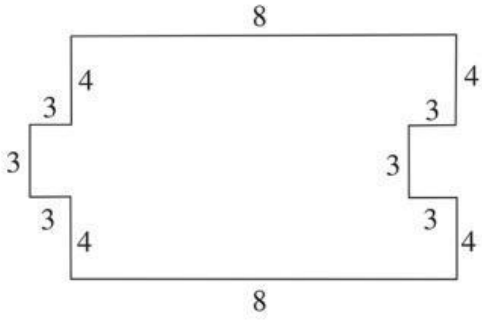
(D) 190°

(E) 210°

Exercises taken from The Princeton Review (2021) SSAT & ISEE Prep 2022. Penguin Random House. New York. US.
Adapted by Andrés Barón-Ávila
MA Education and Technology – UCL – IOE

LIVEWORKSHEETS

33. What is the area of the figure below if all the angles shown are right angles?



(A) 38

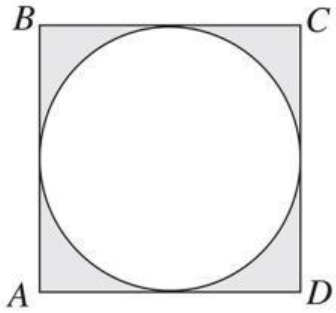
(B) 42

(C) 50

(D) 88

(E) 96

34. In the figure below, the length of side *AB* of square *ABCD* is equal to 4 and the circle has a radius of 2. What is the area of the shaded region?



(A) $4 - \pi$

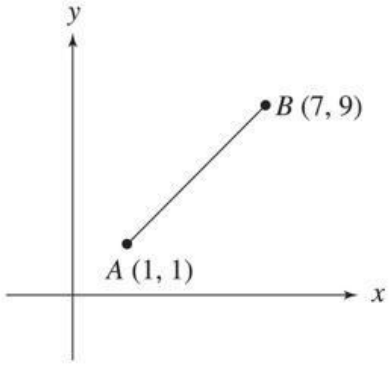
(B) $16 - 4\pi$

(C) $8 + 4\pi$

(D) 4π

(E) 8π

35. The distance between points *A* and *B* in the coordinate plane below is ___.



(A) 5

(B) 6

(C) 8

(D) 9

(E) 10

Exercises taken from The Princeton Review (2021) SSAT & ISEE Prep 2022. Penguin Random House. New York. US.
Adapted by Andrés Barón-Ávila
MA Education and Technology – UCL – IOE

LIVEWORKSHEETS