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SCAT Advanced

PDF Sample Test

Printable Practice Test with Solutions – Get a Feel for the Test & Increase Your Child's Chances of Scoring High

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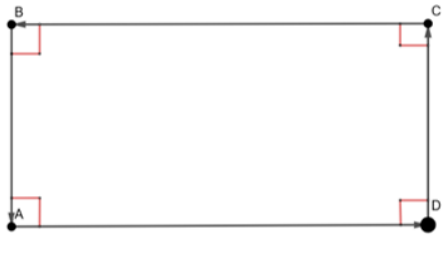
* The correct answers and explanations are located at the end of this PDF.

Practice Questions – Quantitative

Each of the following questions has two parts. One part is in Column A. The other part is in Column B.

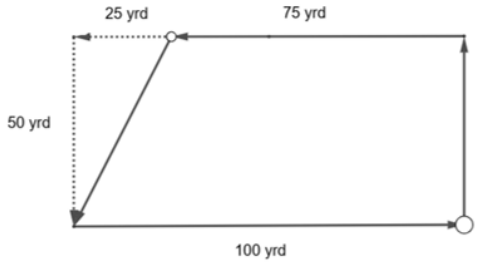
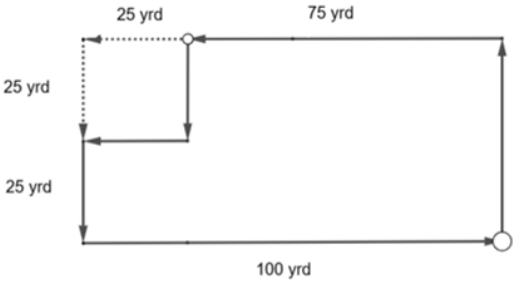
You must find out if **one part is greater** than the other, if the parts are **equal**, or if **not enough information is given** for you to decide.

Question #1



START

An old lady walks a path for her exercise at a constant speed in a daily routine

Column A	Column B
The time the old lady saved by taking this shortcut 	The time the old lady saved by taking this shortcut 

A) Column A is greater
B) Column B is greater
C) The two values are equal
D) Not enough information is given

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Question #2

$\lvert 3x + 1 \rvert < 8$ x is an integer	
Column A	**Column B**
Number of x values that make the inequality true	5

A) Column A is greater
B) Column B is greater
C) The two values are equal
D) Not enough information is given

Question #3

A sequence d is defined by the equation $dn = 7 + (n - 1) \times (-3)$ where $d_1 = 7, d_2 = 4, d_3 = 1, \ldots$	
Column A	**Column B**
d_4	d_5

A) Column A is greater
B) Column B is greater
C) The two values are equal
D) Not enough information is given

Question #4

Line a is parallel to the y-axis and perpendicular to line b. Line b passes through the point (-2,5) Which has greater value?	
Column A	Column B
The y-intercept of line b	3

A) Column A is greater
B) Column B is greater
C) The two values are equal
D) Not enough information is given

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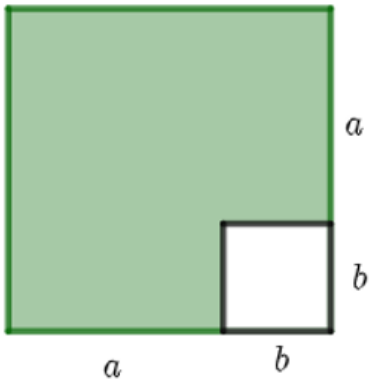
Question #5



Given the side of the bigger square is a+b, which is greater?

Column A	Column B
The area of the shaded region	$a^2 + 5ab$

A) Column A is greater
B) Column B is greater
C) The two values are equal
D) Not enough information is given

Practice Questions – Verbal

Each question begins with two words. These two words go together in a certain way. Under them, there are four other pairs of words lettered A, B, C, and D.

Find the lettered pair of words that go together in the same way as the first pair of words.

Question #6

abstract : concrete ::

A. theoretical : practical
B. intangible : visible
C. blurry : sharp
D. fictional : historical

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Question #7

waterproof : repel ::

A. strong : weak
B. edible : poison
C. elastic : break
D. porous : absorb

Question #8

mill : grain ::

A. loom : cloth
B. kiln : pottery
C. press : olives
D. oven : cake

Question #9

evaporate : disappear ::

A. melt : freeze
B. rotate : stop
C. expand : shrink
D. ignite : burn

Question #10

embryo : fetus ::

A. seed : flower
B. dawn : sunrise
C. cloud : rain
D. sketch : painting

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Correct Answers & Explanations

Question #1

The correct answer is (A).

We take note that the old lady walks at a constant speed on the same path, so in order to find how much time she saved we have to get the distance she traveled

In Column A, all the sides are given except for the new path she will take to save time. We will notice that the path formed a right triangle, so we will use the Pythagorean theorem with the formula:

$$a^2 + b^2 = c^2$$

$$50^2 + 25^2 = c^2$$

$$c = \sqrt{50^2 + 25^2}$$

$$c = 55.9$$

Now we add all the distance traveled:

$$T_d = 50 + 75 + 25\sqrt{5} + 100$$

$$T_d = 280.9 \text{ yrds}$$

To find the distance in column B, we simply add all sides

$$T_d = 50 + 75 + 25 + 25 + 25 + 100$$

$$T_d = 300 \text{ yrds}$$

The lesser distance traveled is the lesser time taken which means Column A has greater time saved.

Question #2

The correct answer is (C).

The inequality $|3x + 1| < 8$ means that the expression inside the absolute value, $3x + 1$, is less than 8 units away from 0. In other words, $3x + 1$ must lie -8 and 8. We can rewrite this as:

$$-8 < 3x + 1 < 8$$

Now, we need to solve for x by isolating it. First, subtract 1 from all parts of the inequality:

$$-8 - 1 < 3x + 1 - < 8 - 1$$

$$-9 < 3x < 7$$

Next, divide through by 3 to solve for x:

$$\frac{-9}{3} < x < \frac{7}{3}$$

$$-3 < x < \frac{7}{3}$$

Since $\frac{7}{3} \approx 2.33$, the inequality becomes: $-3 < x < 2.33$

The integer values of x that satisfy the inequality $-3 < x < 2.33$ are:

$$x = -2, -1, 0, 1, 2$$

Thus, the number of integer solutions is 5.

Since 5 is equal to 5, **the two values are the same.**

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Question #3

The correct answer is (A).

The formula given is for an arithmetic sequence:

$$d_n = 7 + (n-1) \times (-3)$$

This means the first term of the sequence is 7, and each subsequent term decreases by 3, since the common difference is -3.

Now, we will calculate the values of d_4 and d_5 by substituting $n = 4$ and $n = 5$ into the formula.

For d_4:
Substitute $n = 4$ into the formula:

$$d_4 = 7 + (4-1) \times (-3) = 7 + 3 \times (-3) = 7 - 9 = -2$$

So, $d_4 = -2$.

For d_5:
Substitute $n = 5$ into the formula:

$$d_5 = 7 + (5-1) \times (-3) = 7 + 4 \times (-3) = 7 - 12 = -5$$

So, $d_5 = -5$.

Since −2 is greater than −5, it is clear that d_4 is greater than d_5 .

Question #4

The correct answer is (A).

In this problem, the x-intercept of the line b must be determined in order to compare it to column B with the value of 3.

First, the line a is considered to be parallel to y-axis which means that the line is vertical and since line b is perpendicular to it, it means that line b is parallel to the x-axis and intercepts the y-axis.

Now, we know that the line a and b has zero slope since they are parallel to the axes of the Cartesian plane. Given the point (-2,5) and the slope of zero we can formulate the equation of the line in point-slope form:

$$\boldsymbol{y = mx + b}$$
$$\boldsymbol{y = 0 \cdot x + b}$$
$$\boldsymbol{y = b}$$

Then we plug-in the values of x and y

$$5 = 0 \cdot (-2) + b$$
$$b = 5$$

This means that the y-intercept of the line is 5, which is greater than column B which is 3.

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Question #5

The correct answer is (B).

To solve the problem, we need to get the area of the shaded region first. For a square, the area formula is:

$A = s^2$

Now, the side of the square is a+b.

$$A = (a+b)^2$$

$$A = (a+b)(a+b)$$

$$A = a^2 + ab + ab + b^2$$

$$A = a^2 + 2ab + b^2$$

Then we get the area of the smaller square with side b.

$$A = b^2$$

Then we subtract the areas of the bigger and smaller square.

$$Area\ of\ the\ shaded\ region = (a^2 + 2ab + b^2) - b^2$$

$$A = a^2 + 2ab$$

Comparing the area of the shaded region, **column B is greater** with $a^2 + 5ab$.

Question #6

The correct answer is (A) theoretical : practical

"Abstract" (conceptual) is the opposite of "concrete" (tangible). Similarly, "theoretical" (idea-based) is the opposite of "practical" (application-based).

The other choices are incorrect because:

B. intangible : visible – Incorrect, as "intangible" and "visible" are not directly opposites; visibility is a narrower concept.

C. blurry : sharp – Incorrect, as these describe clarity, not abstract versus tangible qualities.

D. fictional : historical – Incorrect, as fictional and historical are contrasting but unrelated to the abstract-concrete dichotomy.

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Question #7

The correct answer is (D) porous : absorb.

“Waterproof” means capable of repelling water, just as “porous” means capable of absorbing it.

The other choices are incorrect because:

- strong : weak – “Strong” and “weak” are opposites, not analogous to the original pairing.
- edible : poison – “Edible” means safe to eat, which is unrelated to “poison.”
- elastic : break – “Elastic” refers to flexibility, which is not analogous to “break.”

Question #8

The correct answer is (C) press : olives.

The relationship in **mill : grain** is that a mill is a **machine that processes a raw material**, in this case, grain.

To solve the analogy, we look for a pair where the first word is also a machine or device, and the second word is the material it works on before it becomes a final product.

Option C. press : olives matches this perfectly, because a press processes olives to extract oil, making it the same “machine → raw material” relationship as a mill working on grain.

The other choices do not fit this pattern:

loom : cloth, kiln : pottery, and oven : cake all show a machine paired with a **finished product**, not the raw material that goes into it.

Because only “press : olives” mirrors the structure of “mill : grain,” it is the correct answer.

Question #9

The correct answer is (D) ignite : burn.

When a liquid evaporates, it changes into vapor and therefore seems to disappear, so the relationship is one of action causing a result.

The only option that matches this pattern is **ignite : burn**, because when something is ignited, it begins to burn.

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The other options do not show this cause-and-effect connection:

A. melt : freeze – These are opposites; melting does not cause freezing.

B. rotate : stop – Rotating does not lead to stopping; these describe different states of motion, not a cause-and-effect pair.

C. expand : shrink – These are antonyms; expansion does not cause shrinking.

So the only pair that mirrors the relationship "evaporate → disappear" is ignite → burn.

Question #10

The correct answer is (B) dawn : sunrise.

The relationship between embryo and fetus is one of **developmental progression**, where an embryo becomes a fetus at the next stage of growth.

The only option that reflects this same "earlier stage → later stage" sequence is **B. dawn : sunrise**, because dawn comes first and leads into sunrise.

The other choices do not show this type of orderly developmental progression:

A. seed : flower – Although a seed eventually becomes a flower, the analogy spans multiple biological stages (seed → sprout → plant → flower), not a direct two-step progression like embryo → fetus.

C. cloud : rain – A cloud does not develop into rain. It may produce rain, but this is a cause-and-effect relationship, not a developmental stage sequence.

D. sketch : painting – A sketch may be used to plan a painting, but a sketch does not develop into a painting the way an embryo becomes a fetus. It represents preparation, not biological progression.

So, the relationship that best mirrors embryo → fetus is dawn → sunrise.

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