

# ScholarSkills Learning Center

## Reading, Writing, & Math Skills for All Students

ScholarSkills



### How To Earn Better Grades & Higher Test Scores

**Location:** 4709 Ave. N Brooklyn, NY

**Hours:** 3 pm-7 pm (Tues.- Thurs.) & 10 am- 2pm (Saturdays)

**Contact:** (718) 258-4647; [www.scholarskills.com](http://www.scholarskills.com)

**Excellence in Reading, Writing, Math & Test Preparation:**

- ISEE (Independent Schools Entrance Exam)
- SAT, ACT
- Regents Exams
- State Tests in Math, ELA

# ScholarSkills Learning Center

# Do Your Kids Know Their Facts?

Give them the  
**Fact Fitness Test**  
to see if they know what they  
should know!

## Contents:

- ✓ Tips and Tools that Students Can Use:
- ✓ Four One Minute Math Fact Tests
- ✓ Four General Knowledge Tests in Geography, Science, and History

Each math test should take them no longer than one minute. Set a timer and stop at one minute for each test. Then see if they can name the people, places, and things on the general academic facts test. **Answer keys are available at [www.scholarskills.com/facts](http://www.scholarskills.com/facts)**

Name: \_\_\_\_\_

$8 + 2 = \underline{\quad}$

$8 + 9 = \underline{\quad}$

$2 + 2 = \underline{\quad}$

$9 + 9 = \underline{\quad}$

$5 + 8 = \underline{\quad}$

$8 + 8 = \underline{\quad}$

$7 + 9 = \underline{\quad}$

$9 + 5 = \underline{\quad}$

$2 + 9 = \underline{\quad}$

$6 + 7 = \underline{\quad}$

$8 + 6 = \underline{\quad}$

$5 + 8 = \underline{\quad}$

$3 + 3 = \underline{\quad}$

$7 + 10 = \underline{\quad}$

$6 + 5 = \underline{\quad}$

$2 + 6 = \underline{\quad}$

$3 + 7 = \underline{\quad}$

$6 + 6 = \underline{\quad}$

$4 + 7 = \underline{\quad}$

$4 + 3 = \underline{\quad}$

$3 + 4 = \underline{\quad}$

$9 + 9 = \underline{\quad}$

$1 + 5 = \underline{\quad}$

$2 + 3 = \underline{\quad}$

$8 + 6 = \underline{\quad}$

$4 + 5 = \underline{\quad}$

$8 + 2 = \underline{\quad}$

$6 + 8 = \underline{\quad}$

$5 + 5 = \underline{\quad}$

$9 + 8 = \underline{\quad}$

$3 + 9 = \underline{\quad}$

$2 + 9 = \underline{\quad}$

$5 + 5 = \underline{\quad}$

$6 + 9 = \underline{\quad}$

$4 + 8 = \underline{\quad}$

$1 + 8 = \underline{\quad}$

$4 + 6 = \underline{\quad}$

$2 + 7 = \underline{\quad}$

$2 + 4 = \underline{\quad}$

$10 + 9 = \underline{\quad}$

A lion may be the king of the jungle, but this animal is the king of cats. Its bigger than all other cats, even the lion.

Like a lion, it also has a very loud roar.

It doesn't hunt in packs; it hunts by itself.

**(a) cheetah (b) jaguar (c) tiger (d) puma**

2

If the planets had a race around the sun, this planet would win first place because it is faster than the rest.

If you lived on this planet, you would probably melt from the scorching hot days, and freeze to death during the cold nights.

The Sun is closer in distance to it than any other planet.

**(a) Uranus (b) Jupiter (c) Mercury (d) Saturn**

4

Earth has more gravity than this rocky planet.

It is nicknamed "the red planet" because certain elements of the planet make its color, well, red.

It might contain aliens--at least, that's what people think.

**(a) Mercury (b) Venus (c) Mars (d) Jupiter**

6

This planet is big in its own right; only Jupiter is bigger.

Its unique features allow it to be the farthest planet that can be seen without the use of a telescope.

This planet's main claim to fame is its beautiful rings.

**(a) Earth (b) Neptune (c) Pluto (d) Saturn**

8

Lots of storms, lots of wind--the weather on this planet is very frightful.

This planet is mostly composed of ice and water; no wonder its color is blue.

Its ocean blue color allows it to have the same name as the Greek sea god.

**(a) Jupiter (b) Earth (c) Neptune (d) Mercury**

10

It is the domesticated version of a wolf.

It helps all kinds of people, including policemen, firemen, elderly or handicapped people, and lonely people who just need a friend.

One way it communicates is by wagging its tail.

**(a) jackal (b) hyena (c) fox (d) dog**

1

This sea creature is boneless; its body consists of a tough, flexible structure called cartilage instead of bones.

Ironically, while it has great eyesight, its eyes are also the weakest part of its body.

It is seen as one of the deadliest and most terrifying sea creatures.

**(a) whale (b) shark (c) octopus (d) dolphin**

3

Plants convert this gas into food and energy.

When you breathe, air goes into your mouth while this comes out.

1 carbon atom + 2 oxygen atoms = this

**(a) Carbon dioxide (b) Helium (c) Hydrogen (d) Sodium**

5

It has more moons than any other planet.

There is a round part of this planet that is very big and violent--and red.

If all the planets had a contest to see who was the biggest, this giant planet would easily come in first place.

**(a) Neptune (b) Jupiter (c) Mercury (d) Saturn**

7

Looking for the hottest planet? Don't look at this planet. It is the total opposite.

It is composed mostly of ice.

This is a weird planet. It doesn't spin forwards or backwards; it spins sideways.

**(a) Uranus (b) Jupiter (c) Venus (d) Saturn**

9

Name: \_\_\_\_\_

$10 - 7 = \underline{\quad}$

$8 - 5 = \underline{\quad}$

$7 - 2 = \underline{\quad}$

$5 - 4 = \underline{\quad}$

$3 - 1 = \underline{\quad}$

$8 - 5 = \underline{\quad}$

$4 - 1 = \underline{\quad}$

$9 - 8 = \underline{\quad}$

$8 - 3 = \underline{\quad}$

$4 - 2 = \underline{\quad}$

$9 - 4 = \underline{\quad}$

$9 - 5 = \underline{\quad}$

$4 - 4 = \underline{\quad}$

$9 - 6 = \underline{\quad}$

$9 - 4 = \underline{\quad}$

$9 - 2 = \underline{\quad}$

$6 - 2 = \underline{\quad}$

$10 - 1 = \underline{\quad}$

$9 - 2 = \underline{\quad}$

$9 - 7 = \underline{\quad}$

$9 - 1 = \underline{\quad}$

$10 - 7 = \underline{\quad}$

$10 - 9 = \underline{\quad}$

$7 - 4 = \underline{\quad}$

$9 - 8 = \underline{\quad}$

$7 - 4 = \underline{\quad}$

$4 - 2 = \underline{\quad}$

$10 - 9 = \underline{\quad}$

$10 - 8 = \underline{\quad}$

$6 - 4 = \underline{\quad}$

$7 - 5 = \underline{\quad}$

$9 - 2 = \underline{\quad}$

$10 - 4 = \underline{\quad}$

$4 - 3 = \underline{\quad}$

$10 - 6 = \underline{\quad}$

$8 - 8 = \underline{\quad}$

$9 - 8 = \underline{\quad}$

$10 - 4 = \underline{\quad}$

$5 - 1 = \underline{\quad}$

$3 - 2 = \underline{\quad}$

When people think of great scientists, my name is usually at the forefront.

You know  $E=mc^2$ , probably the most famous equation ever? I wrote that.

I was a terrible student. But who cares anyway. Did I really need school to become one of the most brilliant people ever?

**(a) Albert Einstein (b) Isaac Newton (c) Galileo Galilei (d) Charles Darwin**

I was a Renaissance painter who lived in Italy and is in the Painting Hall of Fame.

I painted a picture of a normal woman. Everyone adores this painting, and they especially love the woman's smile.

I also painted The Last Supper.

**(a) Pablo Picasso (b) Isaac Newton (c) Vincent Van Gogh (d) Leonardo da Vinci**

People generally associate me with the invention of the telescope.

I may not have invented the telescope, but it and I did a lot of great work together during the Scientific Revolution.

Did you know about Jupiter's first four moons? No one else did either until I found them with my trusty telescope.

**(a) Charles Darwin (b) Isaac Newton (c) Galileo Galilei (d) Louis Pasteur**

I was a highly esteemed Muslim prophet.

Everything that has to do with Islam—including the worship of Allah and the establishment of the Koran—has to do with me.

My journey from Mecca to Medina was a huge factor in causing Arabs to follow the religion of Islam.

**(a) Aristotle (b) Muhammad (c) Plato (d) Shakespeare**

I am arguably the greatest philosopher ever; in fact, I'm a major reason western philosophy is what it is today.

You think Plato is great? Well, I was the one who taught Plato everything he knows.

My precious disciples—Plato for example—carried on my legacy by writing books about my teachings.

**(a) Socrates (b) Muhammad (c) Aristotle (d) Shakespeare**

I was born in Bethlehem, and I lived and was raised in Nazareth, where I began my preaching career.

Do you want to know where Christianity came from? Talk to me.

I was given many nicknames; one of my personal favorites was "the Messiah."

**(a) Jesus Christ (b) George Washington (c) Babe Ruth (d) Muhammad**

I lived during the Scientific Revolution; I was great at both science and math.

Who else could have been smart enough to invent the law of gravity just by having an apple fall on their head?

If you needed someone to teach you about motion and movement, I was the right person to call upon.

**(a) Albert Einstein (b) Isaac Newton (c) Galileo Galilei (d) Charles Darwin**

I was astute at philosophy and science.

Plato was my teacher.

I am in the Greek philosophy Hall of Fame.

**(a) Aristotle (b) Shakespeare (c) Homer (d) Herodotus**

I dominated every nation on earth in battle—and I was just a kid when I did it.

Not even the mighty Persians could stand up to me.

I am one of the few people with the title "the Great" after my name.

**(a) Jonathan Adams (b) John Wesley (c) Theodore Roosevelt (d) Alexander of Macedonia**

I started a Greek school for scholars called the Academy.

Socrates was my teacher, and my favorite student was Aristotle.

I was a Greek philosopher who is in the Philosophy Hall of Fame.

**(a) Buddha (b) Muhammad (c) Plato (d) Shakespeare**

Name: \_\_\_\_\_

$2 \times 4 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$11 \times 5 = \underline{\quad}$

$6 \times 8 = \underline{\quad}$

$9 \times 4 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$2 \times 3 = \underline{\quad}$

$6 \times 3 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$11 \times 10 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$12 \times 7 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$3 \times 2 = \underline{\quad}$

$10 \times 3 = \underline{\quad}$

$6 \times 8 = \underline{\quad}$

$12 \times 7 = \underline{\quad}$

$1 \times 8 = \underline{\quad}$

$8 \times 2 = \underline{\quad}$

$10 \times 2 = \underline{\quad}$

$7 \times 1 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$4 \times 1 = \underline{\quad}$

$10 \times 5 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$9 \times 3 = \underline{\quad}$

$7 \times 8 = \underline{\quad}$

$11 \times 8 = \underline{\quad}$

$6 \times 4 = \underline{\quad}$

$9 \times 6 = \underline{\quad}$

$11 \times 2 = \underline{\quad}$

$8 \times 6 = \underline{\quad}$

$6 \times 2 = \underline{\quad}$

It is in the northern part of the world at the very top and borders the North Pole.

Polar bears and ice are a major part of it. In fact, it gets its name from the word "arktos", which is Greek for "bear."

In the biggest ocean competition, this poor ocean would come dead last.

**(a) Arctic Ocean (b) Indian Ocean (c) Southern Ocean (d) Pacific Ocean**

Out of all the deserts that have hot climates, this one is the largest.

Actually, it's not the largest desert ever. It comes in third place to cold deserts such as Antarctica and the Arctic desert.

If you want to see this desert, come to Africa.

**(a) The Grand Canyon (b) Niagara Falls (c) The Sahara desert (d) The Empire State Building**

These mountains stretch farther across the earth than any other mountains, and only one other group is taller.

They are located in South America.

The Incas once lived here.

**(a) The Andes Mountains (b) The Alps (c) The Rocky Mountains (d) The Himalayan Mountains**

There is a lot of salt in this sea: A LOT.

Nothing can swim or live in this sea--not even fish.

According to some doctors, if you are sick, bathing in this water will make you well again. That is very ironic considering that its name suggests the total opposite of curing people or giving them new life.

**(a) The Aegean Sea (b) The Black Sea (c) The Red Sea (d) The Dead Sea**

This sea has a "dark" side: elements such as stormy weather make it very dangerous to cross. Very few sailors are willing to tread these menacing waters.

Another "dark" side is this: any creatures trying to live in this sea would die from not being able to breathe.

It is named after a color.

**(a) The Mediterranean Sea (b) The Black Sea (c) The Red Sea (d) The Dead Sea**

The water in this ocean and the atmosphere surrounding it is cold; moreover, there is ice here.

Even the places it borders--Antarctica and the South Pole--are cold.

Frankly, it is located in the southern part of the world.

**(a) Arctic Ocean (b) Indian Ocean (c) Southern Ocean (d) Pacific Ocean**

It is located in Arizona, U.S.

It is easily the most attractive thing about Arizona.

It is one of the natural wonders of the world.

**(a) The Grand Canyon (b) Niagara Falls (c) The Sahara desert (d) The Empire State Building**

They are the kings of all mountains because they tower over all other mountains in height.

They are located in Asia.

One of the mountains in this group is Mount Everest, the tallest mountain ever.

**(a) The Andes Mountains (b) The Alps (c) The Rocky Mountains (d) The Himalayan Mountains**

It is located mainly in Egypt.

The simple fact is that if you are an Egyptian, you really cannot live or do anything without this river.

It stretches farther than any other river in Africa; in fact, there aren't many rivers period that can compare to this one in length.

**(a) The Amazon (b) The Yellow River (c) The Mississippi River (d) The Nile**

Up top is Europe, on the bottom is Africa, to the right is Asia, and in the middle is this body of water.

No wonder it is nicknamed "the sea [in the middle] between lands."

Europe and Asia used this waterway to trade important things with each other.

**(a) The Mediterranean Sea (b) The Black Sea (c) The Red Sea (d) The Dead Sea**

It probably would get picked on by the other continents because it is the smallest one.

Australia is located here.

It is appropriately named: the continent is surrounded and engulfed by ocean water.

**(a) Asia (b) Africa (c) Europe (d) Oceania**

Two of its largest countries are Canada and America.

Native Americans and other indigenous people lived here in peace until the Europeans came.

New York City, Disneyworld, the Grand Canyon, the Statue of Liberty, Niagara Falls--it must be every tourist's dream to come to this continent.

**(a) North America (b) South America (c) Africa (d) Europe**

It is home to the Atacama Desert, a Chilean desert so dry that less rain falls there than anywhere else.

Rainforests are actually prevalent in this continent.

This continent is also home to the Amazon River and the Andes Mountains.

**(a) North America (b) South America (c) Europe (d) Antarctica**

In the biggest ocean contest, this ocean would win first prize.

One would think that it were calm and serene, for its name means "peaceful" in Latin (pacifus is latin for "peaceful."). Actually, it's the total opposite, for volcanic eruptions are quite common here.

This ocean contains the Great Barrier Reef.

**(a) Atlantic Ocean (b) Pacific Ocean (c) Indian Ocean (d) Arctic Ocean**

Any countries that transport and trade oil like sailing in this ocean.

The famous Suez Canal in Egypt is located here.

It gets its name from being near the Indian subcontinent.

**(a) Atlantic Ocean (b) Pacific Ocean (c) Indian Ocean (d) Arctic Ocean**

If all the continents got together and had a "Who is the biggest competition", this one would win easily.

More people live here than anywhere else.

Shanghai, the city that contains the most people of any city anywhere, is located here.

**(a) Asia (b) Europe (c) Africa (d) Antarctica**

There are more countries located on this continent than any other continent.

It is the first continent to have human life.

Animals such as elephants, giraffes, rhinos, and cheetahs are native to it.

**(a) Asia (b) Africa (c) Europe (d) Oceania**

It has it's big moments: the largest country, city, and island (Greenland) are all located here.

Sadly, it also has its small moments: The smallest country (Vatican City) and the smallest town (Hum) are also located here.

World Wars I and II were fought mainly on this continent.

**(a) Asia (b) Africa (c) Europe (d) Oceania**

In the largest population contest, this continent would most certainly come in last place. No one wants to live here.

No place is hotter than Death Valley, and no place is colder than this icy continent.

It is the only continent that is also a desert.

**(a) North America (b) South America (c) Europe (d) Antarctica**

In the competition for being the biggest ocean, it comes in at number two.

Charles Lindebergh made history by becoming the first person to fly across this ocean.

It's namesake is Atlas, the Greek mythological figure tasked with holding up the Earth on his back as punishment.

**(a) Atlantic Ocean (b) Pacific Ocean (c) Indian Ocean (d) Arctic Ocean**

Name: \_\_\_\_\_

$28 \div 7 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$16 \div 8 = \underline{\quad}$

$9 \div 3 = \underline{\quad}$

$30 \div 10 = \underline{\quad}$

$20 \div 4 = \underline{\quad}$

$66 \div 11 = \underline{\quad}$

$4 \div 1 = \underline{\quad}$

$24 \div 8 = \underline{\quad}$

$72 \div 12 = \underline{\quad}$

$36 \div 4 = \underline{\quad}$

$9 \div 3 = \underline{\quad}$

$10 \times 7 = \underline{\quad}$

$12 \div 4 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$

$7 \times 3 = \underline{\quad}$

$6 \times 7 = \underline{\quad}$

$44 \div 11 = \underline{\quad}$

$25 \div 5 = \underline{\quad}$

$27 \div 9 = \underline{\quad}$

$48 \div 12 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$10 \times 3 = \underline{\quad}$

$11 \times 2 = \underline{\quad}$

$4 \div 1 = \underline{\quad}$

$2 \times 8 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

$80 \div 8 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$12 \times 1 = \underline{\quad}$

$4 \times 8 = \underline{\quad}$

$45 \div 5 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

$6 \times 2 = \underline{\quad}$

$40 \div 8 = \underline{\quad}$

$24 \div 8 = \underline{\quad}$

$6 \div 2 = \underline{\quad}$

$48 \div 6 = \underline{\quad}$

$4 \times 10 = \underline{\quad}$

$2 \times 4 = \underline{\quad}$



# ScholarSkills Clues: Reading & Understanding



4709 Ave. N (between E. 48<sup>th</sup> St. and Schenectady Ave.)  
For more information about homework help, call us: (718) 258-4647

To improve **Reading Comprehension**, your child(ren) should memorize the following **5** questions to ask *while* reading:

1. **Main Idea.** What is the main idea of the passage?
2. **Author's Purpose.** What is the author's purpose in writing the passage?
3. **Cause and Effect.** What was the cause of an event in the passage? Or, what happened because of another event?
4. **Sequencing.** In what order did the events, concepts, or statements occur?
5. **Words in Context.** What does a word mean in the context of a sentence or paragraph in the passage?

Memorizing **Latin and Greek roots, prefixes, and suffixes** would also help. Here are some common examples:

Latin Prefix	Meaning	Examples
ab, a	From, down, away	abstract, aversion
circum, circa	Around, about	circumference
de	From, down	deplete, depress
di, dis, dif	Away, from	different, disburse
intra, into	Within, inside of	intramural, interstate

## The 8 Parts of Speech

1. **What are nouns?** Nouns are naming words, and are usually a person, place, or thing. We use them to say what we are talking about, and they name the subject of a sentence.
2. **What is a pronoun?** A pronoun stands in for a noun. If the noun were *Susan*, the pronoun that takes its place would be *she*.
3. **What is a verb?** A verb is a word or group of words that shows action, helps show when an action will take place, or connects a noun or pronoun to words that show its condition. Verbs are action, helping, linking, and being words.
4. **What is a preposition?** A preposition is a word that partners with a noun or pronoun to create a phrase that gives more details or answers questions about a verb or noun. Examples are *above, below, during to, or before*. Prepositions describe time or place.
5. **What is an adverb?** An adverb is a word or group of words that gives us more information about a verb, another adverb, or an adjective. Adverbs answer the following questions about verbs: Verb where? Verb when? Verb why? Verb to what extent? Verb how? How much? How often?
6. **What is an adjective?** An adjective is a word or group of words that gives us more information about a noun. Adjectives tell what kind of noun (color, shape, size), which noun, or how many of a noun.
7. **What are conjunctions?** Conjunctions are connecting words. They help us create connections between words and groups of words in sentences. Common conjunctions are *for, and, nor, but, or, yet, and so*.
8. **What are interjections?** Interjections express powerful emotions such as surprise, celebration, and pain.





# ScholarSkills Clues: Solving Math Problems



**SCHOLARSKILLS**  
INSPIRING EXCELLENCE

4709 Ave. N (between E. 48<sup>th</sup> St. and Schenectady Ave.)  
For more information about homework help, call: (718) 258-4647

**Your child(ren)** should not only memorize math facts but also practice mentally solving addition, subtraction, multiplication, and division problems using flash cards.

## Math Facts Your Child Should Know:

### Fractions and Percentages

$1/2 = 50\%$	$1/4 = 25\%$	$2/5 = 40\%$	$1/8 = 12.5\%$	$7/8 = 87.5\%$
$1/3 = 33.3\%$	$3/4 = 75\%$	$3/5 = 60\%$	$3/8 = 37.5\%$	$1/10 = 10\%$
$2/3 = 66.7\%$	$1/5 = 20\%$	$4/5 = 80\%$	$5/8 = 62.5\%$	$5/10 = 50\%$

### Geometry Formulas

Area of a **rectangle** = length (l) x width (w)

Area of a **parallelogram** = base (b) x height (h)

Area of a **square** = side (s) x side (s)

Area of a **circle** =  $\pi$  x (radius (r) x radius (r)), or  $\pi r^2$

Area of a **triangle** =  $1/2$  x (base (b) x height (h))

**Word Problems:** Solving math word problems can be both a challenging and rewarding activity. They help students to see math in the real world, and they encourage them to learn the underlying concepts and operations.

## Quick Tips:

1. **Read the question carefully.** Depending on the complexity and length of the problem, you may need to re-read it at least once to fully understand it.
2. **Highlight key words.** Language and phrases are important. Underline or use a highlighter, or take notes in the margin.
3. **Ignore irrelevant information.** Sometimes a problem includes information that is not directly related, or that does not help you answer it.
4. **Complete all of the steps.** In some multi-step problems, you may be tempted to stop before all the steps are complete. Don't forget to complete the *entire* problem! (Remember to read it carefully – do you know what it is asking?)
5. **Write your answer in full.** For example, if the question asks, "How many runs did John score?" answer, "John scored 8 runs." Don't just write the number 8!
6. **Show your work.** This will help when you check your answer. Even if you get the final solution wrong, showing your work may help you earn some credit for correct calculations.
7. **Check to see if your answer makes sense.** Ask yourself whether your answer should be a bigger or smaller number than what you started with. Check your answer.

Your child's education is key to his or her future. Call us or email [contactme@scholarskills.com](mailto:contactme@scholarskills.com) today!  
This message was sponsored by: *John Turis Enterprises*