

Incoming 7th Grade Summer Math “Packet”

Happy Summer Break!

The Incoming 7th Grade Math “Packet” is an expectation of proficiency in certain skills which will help you immensely in 7th Grade Mathematics and beyond. These are skills which have been taught before (possibly many times) and will be ASSUMED that you are proficient with them.

- Add, subtract, multiply, and divide whole numbers, fractions, decimals, and integers
- Plotting points on a coordinate grid
- Converting amongst fractions, decimals, and percents
- Ratios, rates, proportions
- Order of Operations (PEMDAS)
- Area, perimeter, and circumference of basic geometric shapes and figures (rectangles, triangles, parallelograms, circles)

One amazing resource which can help with proficiencies is **khanacademy.org**. It is a free website with thousands of short videos and hundreds of different Exercise sets for math skills. Students can create free accounts through a parent account or with their own email. Instructions on how to start your own account is on the 3rd page.

Recommended exercises:

To begin with, search for any exercises listed above. Your best bet is to earn at least 50% (go for 100%!) on the 6th grade mission (see next page for starting the 6th grade mission). If you are confident with the 6th grade mission, try the 7th grade or prealgebra missions.

The screenshot shows a web browser window displaying the Khan Academy 'Unit rates' practice page. The browser's address bar shows the URL: <https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-rates/e/unit-rates>. The page title is 'Unit rates'. The main content area contains the following text: 'Delilah does 184 jumping jacks in 4 minutes. She does her jumping jacks at a constant rate. How many jumping jacks can Delilah do per minute?'. Below this text is an input field with the placeholder text 'jumping jacks'. At the bottom of the page, there is a progress indicator showing 'Do 7 problems' with 7 circles, the first of which is filled, and a 'Check' button. The left sidebar shows a navigation menu with the following items: 'Intro to rates', 'Practice: Unit rates' (highlighted with a star), 'Solving unit rate problem', 'Solving unit price problem', 'Practice: Rate problems' (with a star), 'Rate review', and 'Multiple rates word problem'. The Windows taskbar at the bottom shows the search bar, task view, and several application icons, along with the system tray showing the time as 4:59 PM on 6/22/2018.

Incoming 7th Grade Summer Math “Packet”

IT IS MORE IMPORTANT TO ANSWER THE QUESTION CORRECTLY THAN IT IS TO FINISH THE EXERCISE SET QUICKLY!

If you get stuck on an exercise set, look at the left side of the screen. There should be several video topics there to review (if necessary). There are also hints for each question as well.

There are also badges that students earn by quickly answering questions correctly, perseverance, watching videos, etc. See how many badges you can earn!

6th Grade Mission:

- Search 6th grade math in the search bar
- Click on the link “6th Grade Math | Khan Academy”
- Click “Mission”
- Start the Mission warm-up and use this page to work on the 6th grade mission

The screenshot shows the Khan Academy interface for the 6th Grade Mission. The top navigation bar includes "Subjects", "Search", "Khan Academy", "Donate", and the user name "Matthew Dalzell". The main content area is divided into two columns. The left column, titled "6th grade", shows a "MISSION PROGRESS" section with a circular progress indicator at 50%. Below this, a list of skills is shown: 73 skills mastered, 5 skills level two, 4 skills level one, 5 skills practiced, and 71 skills not started. A link "Why does it seem like I lost progress?" and a "Hide skill breakdown" link are also present. The right column, titled "SKILLS UP NEXT FOR YOU", features a "MASTERY CHALLENGE" button with a "Start" button, and two "YOU ADDED" practice items: "Multiplying & dividing negative numbers word problems" and "Whole number place value challenge", each with a "Practice" button. The bottom of the image shows the Windows taskbar with the search bar and various application icons.

Incoming 7th Grade Summer Math “Packet”

Students may have an account through a parent’s account by creating a child account (multiple child accounts can be created with one parent account), or students may have their own account.

CREATING AN ACCOUNT

If neither you nor your child has a khanacademy.org account already in existence.

Go to khanacademy.org

In the middle of the page underneath the “Sign in with Google” bar, there are 3 options: “sign up with email,” “Teachers, start here,” and “Parents, start here”. Choose either “sign up with email,” or “Parents, start here.”

IF YOU CHOOSE “SIGN UP WITH EMAIL,” put in your (or your child’s) First name, last name, email address, and birthdate.

IF YOU CHOOSE “PARENTS, START HERE,” you can sign up using google, facebook (not recommended), or another email with “Or sign up using email.” Input the proper information.

CREATING A CHILD’S ACCOUNT

If a parent has a khanacademy.org account OR just created one using the above steps.

- Sign in to your account.
- On the top left corner should be a link that says “Coach.” Click it.
- Click on “Child Accounts” link on the left side.
- Click the “Create Child Account” button.
- Fill in the information needed.
 - Please note that the child’s password can only be changed by you.

****The benefit of creating a child’s account through your own is you have access to see your child’s progress in the skill sets.****

LINKING YOUR ACCOUNT

If a student has his/her own account and has yet to linked it to his/her parent.

- 1) Sign in to your account.
- 2) Click on your name on the top right side.
- 3) Highlight and click your name again from the drop down menu.
- 4) Click on “Coaches” on the left side of the screen. It is the last link on the left side.
- 5) Type in your parent’s email (used for the parent account) as the coach’s ID and press the button to add your parent as the coach.
- 6) ALTERNATIVELY: To join the “Summer Packet 2019” Class on khanacademy, enter the following code for the coach’s ID: ZPM9TP48. Mr. Dalzell will be able to see the progression as well.

****Already existing usernames can be used IF the username can identify the student without ambiguity****