



Getting Ready for Grade 2!

The following summer math activities will enable your child to review math concepts and reinforce skills learned this year. Just a few minutes each day spent “thinking and talking math” will help reinforce the math that has been learned and begin to bridge the foundation for extending to the concepts that will be developed next year. The goal is for your child to have fun thinking and working collaboratively to communicate mathematical ideas. While your child is working, discuss the math concept being reinforced.

DOs and DON'Ts For Helping at Home

DO:

- Expect your child to work hard and be good at math.
- Ask “How did you get that?” “Can you show me another way to do that?” “Remember how you did ____, see if you can use that same strategy.”
- Encourage your child to stick with a task even if it seems challenging.
- If you see signs of frustration, suggest leaving the problem for a day or two and returning to it with fresh perspective at another point.
- Listen carefully to how your child is thinking about math.

DON'T:

- Try not to tell your child how to figure something out; he or she will learn much more by figuring it out for him or herself. You can always say, “Show me how you figured that out.” Then wait, listen and say, “Oh, that’s great. Here’s how I might figure it out. How are our strategies the same?”

DO ASK -- DON'T TELL

You can ask great questions without telling your child what to do!

In the beginning....

What do you know?

What do you need to find out? How might you begin?

What should you do first?

While working....

How can you organize your information?

Can you make a drawing to explain your thinking?

What would happen if...?

What do you need to do next?

Do you see any patterns? Any relationships?

Can you predict....?

Does this remind you of any other problems you've done?

Reflecting on Solutions...

Is your solution reasonable?

How did you arrive at your answer?

Can you convince me that your solution makes sense? What did you try that didn't work?

Responding...

Your response is as important as your initial question. Continue to discuss problems even after children have their answer. This will give your child a chance to clarify thinking and make more connections.

You can ask:

How do you know that your answer makes sense?

Do you know another way to solve this?

Do you think there is more than one answer? How could we find out?

*We hope that you will enjoy the activities, extend them, create new ones and **have fun!***

August 1st-9th- Review challenging activities and log onto Mathletics for extra practice

August 12th-23rd- Relax and prepare to return to school by:

- practicing counting from 1 to 100, forwards and backwards
- adding and subtracting numbers within 50, without regrouping
- naming 2D & 3D shapes you see all around you
- any other enjoyable math activities you've done this summer!

	Sunday	Monday	Tuesday	Wednesday	Thursday	
	JUNE					1
2	3 If Mary has 18 QR and Jacob has 2 QR, how much money do they have together? What is another way to make 20QR? (15 and 5, etc.) Record your thinking.	4 If you save two Qatari Riyals every day in the month of June, how much money will you have saved at the end of the month? Draw a picture or equation to show your thinking.	5 Sort the laundry into categories (owner, color, item type (pants/shirt)). Make a bar graph and compare the categories. If by owner: Who has more clothes? Who has less? If by color: Who has more ___ colored clothes? etc. Record your graph.	6 Go on a Shape Hunt around your home. Look for items shaped like a square, rectangle, and a triangle. Draw and label the items. These are all 2D shapes. Do you remember any 3D shapes? Hint: a cylinder is one but there are more!	7 Blow a marble, a bottle cap and a pencil across a table or 3 similar objects. Measure using cm or dirhams how far they go. Which goes the farthest? By how much? Why do you think they went different distances?	8
9	10 Add 10 to the following numbers. (18, 37, 40, 79) What do you notice? What changes? The ones or tens? Show your work.	11 Write down all of the doubles you know. (2+2=4, 8+8 = 16, etc.) Try and learn two more if you don't know all of them 0 to 10.	12 Abdulla has 57 video games and his friend has 20 less than Abdulla. How many video games does his friend have? Show your work and write an equation. What if his friend had 10 more?	13 Roll two dice. Practice addition and subtraction by adding or subtracting the two numbers. If you don't have dice, have an adult give you two numbers at a time to add or subtract! Show your work	14 Are the equations "true" or "false"? Explain. Work them out to be sure! 3+4+2=4+5 5+3=8+1 Can you think of your own?	15
16	17 List of numbers: 1 5 10 50 100. Include the numbers below with the group above so all numbers will be listed in order from least to greatest. 49, 7, 22, 98, and 3. For example, put the 3 after the 1.	18 Write the number made by the tens and ones listed: 2 tens and 3 ones = 23 5 ones and 8 tens; 1 ten and 0 ones; 3 tens and 3 ones. Can you make your own?	19 Start with the following numbers: 24, 66, 11, 30, and count by 10's to 100. Record your answers for each number. For example, if I started with 72: 72, 82, 92, 102	20 Do the following equations. Can you do them on a number line? 40 + 80 = 30 + 50 = 23 + 60 = Record your work.	21 I went to the park and I saw 18 rabbits playing in the grass. When I came back from lunch, I only saw 10 rabbits. How many left while I ate lunch? Show your thinking with pictures and an equation.	22

23	24 Tell the time that you go to bed to the closest hour or half-hour. Draw a picture of the clock's hands for that hour. Can you draw it on a digital and analog clock?	25 Jump rope and count by tens to 100. Try counting backwards. If you don't have a jump rope, just hop or jump and count by 10's. Can you count backwards by 10s from 100?	26 Today's number is 18 Make 18 by: adding two numbers, subtracting two numbers, adding three numbers. Record your thinking. Now try it with the number 40.	27 Sheikha has 7 dolls, 20 necklaces, and 12 games. How many things does she have in all? Show your work.	28 50 is the answer. What could the question be? Come up with 4 more equations. For example: $60-10=50$	29
30						

	<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	
JULY						
	1 Hold an ice cube in your hand. If it's too cold lay it on the sidewalk or a plate. Count by 2's until it melts. Did you count to more or less than 100? Why did it melt?	2 Using a ruler, find 3 things longer than 30cm and 3 things shorter than 30cm. If you don't have a ruler. Find a shoe and use that...find 3 things longer than the shoe and 3 things shorter than the shoe.	3 Ask 5 people their phone numbers. Add the digits of each phone number together. Whose phone number has the highest value? Show your work.	4 The number of the day is 78: Add ten, subtract ten. How many ones? tens? Make 78 by adding 2 numbers. Make 78 by subtracting 2 numbers.	5 Some 3D shapes are cylinders, cubes, spheres, cones, and pyramids. Use play-dough, dirt, sticks, paper, etc. to make one or more of the shapes. Write about what you did.	6
7	8 Write down the time you eat dinner to the nearest half-hour for each day this week. (6:30 or 5:00) Draw the time on an analog AND digital clock. What day did you eat the earliest? latest? Record your work!	9 Go to the park or outside and draw the shapes you see. Do you see more rectangles than triangles? What are the attributes of triangles and rectangles? (How many sides, corners, etc.) Record your work.	10 If you bake 30 cookies and you want to give 10 cookies to each one of your friends, how many friends could you give 10 cookies to? Draw a picture to help you figure it out or make some cookies and try it!	11 Start at your front door and walk to the stove (oven). Record how many steps it took. Start at your front door and walk to the bathroom and record how many steps it took. Which took more? How much more? (Try giant steps) Record your thinking.	12 Mohammed mows lawns for money. He gets 5QR for each yard he mows. If he mows 6 yards how much money would he have? What if he got \$20 for each yard? Draw a picture to help you!	13
14	15 Use a number line to record how you would count by 10's from 55 to 95. Remember your 1st number should be 55, not 0 or 1. Show your work.	16 Write a story problem to go with $6 + 8$. Now write a subtraction problem for $14 - 6$. Draw pictures to go with both!	17 Circle the number that is greater out of each pair. How do you know? 78 or 87 32 or 12 50 or 5 87 or 54 Record your work.	18 Ask 10 people their favorite food. Record your data in a chart or graph. Compare the results by looking at your data. Did anyone like the same foods? More or less of a food than another?	19 Estimate how many pieces of cereal are in 1/4 cup. Count the pieces. Now estimate how many 1/4 cups fill in your cereal bowl. Check your answers.	20

21	<p>22 Use these numbers in a story problem: 18, 9, 9. Ask an adult to solve your story problem. Remember you can add, subtract, or both! Record your work!</p>	<p>23 Ahmed has 75 red and blue fish. If 20 are red how many are blue? Show your work with an equation and pictures.</p>	<p>24 Make up a challenge word problem for your mom, dad, sister, brother, neighbor, or friend!</p>	<p>25 Amna collects marbles. She has 5 pink marbles, 4 red marbles and 6 green marbles. How many marbles does she have in all?</p>	<p>26 7 children watch a parade. Then 4 children walk away. How many children are still watching the parade?</p>	27
28	<p>29 How many squares are in a 4 by 4 square? What equation could you write for this?</p>	<p>30 How many different ways can you cut a sandwich into fourths? Try it with real or paper sandwiches. Record your work with drawings!</p>	<p>31 Jump 3 times: once like a bunny, once like a frog, and once like a child. Measure each jump. Which was the longest? Shortest? What is the difference?</p>			