

# MULTIPLYING BY 10'S

# MATH QUESTS

## CONCEPTS COVERED:

- MULTIPLICATION
- MULTIPLYING BY GROUPS OF 10
- READING COMPREHENSION SKILLS
- READING FLUENCY

**Sunflower Shed**

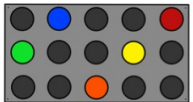
Thankfully, you were smart enough to solve the math problem on the box with the Sunflower Shed key! You unlock the shed doors with no problem.

You head inside, but stop a few steps in. It's pitch black in here! You look around, but you can't make out anything in the dark. You start to turn around and head back outside. Just then, a light on the wall catches your eye.

You step closer and realize it's a panel to control the shed lights! Great!

But to get access, you have to solve a math problem. Not so great.

You peek closer at the small screen of the panel, ready to solve the problem. After all, you can't just leave before finding out what Farmer Randy is hiding in this shed!



SELECT THE CORRECT SOLUTION FOR  $20 \times 5$ .

25    10    100

**Sunflower Shed**

You tap your answer on the screen of the panel. You look around as you wait for the lights to come on.

You hear a hum. A second later, the shed lights up! You blink a few times to get used to the light after being in the dark.

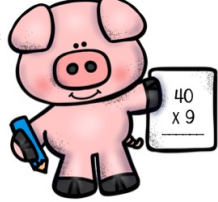
Once your eyes adjust, you look around the shed. There are lots of normal shed items: lawnmowers, shovels, rakes, pig cages...

Wait a second! Pig cages aren't normal shed items! You run over to the cage to get a closer look.

Wiggles is inside! You found him! "Don't worry, Wiggles," you say. "I'll get you out of here!"

The pig squeaks happily in response while you try to find a way to open the crate. It looks like the lock is electronic, controlled by a keypad like the ones found on Farmer Joe and Farmer Randy's farms. The only issue is that you can't find a matching math problem to solve!

Wiggles oinks loudly and pushes his snout through the bars of the cage. At first, you think he just wants attention, but then you see he's blowing away bits of straw and hay on the floor. Underneath is a piece of paper with a math equation! "Wow!" you exclaim. "Thanks, Wiggles!"



40  
 $\times 9$


240    280    320    360

**Farmer Joe's House**

You decide that it's best to start by talking to the crying is coming from Farmer Joe's house, y

AS you head to the door to Farmer Joe's house, louder. That means you're in the right place! You Farmer Joe is so upset that he can't hear you. You'll have to just walk in.

You try to turn the doorknob, but it is locked! There's a small keypad and a math equation written next to the door. It seems like if you punch the answer into the keypad, the door will unlock!


$$\begin{array}{r} 30 \\ \times 6 \\ \hline ? \end{array}$$

120    180    240    300

# GET STUDENTS EXCITED ABOUT LEARNING

# WHAT'S IT ABOUT?

- STUDENTS GO ON A QUEST SIMILAR TO CREATING YOUR OWN ADVENTURE DOWN MANY PATHS FINDING CLUES AND ITEMS
- ALONG THE WAY THEY SOLVE MATH PROBLEMS AND A MYSTERY
- WHEN THEY GET THE ANSWER WRONG, ADVICE IS OFFERED TO HELP SOLVE IT CORRECTLY
- EACH READING PIECE IS CAREFULLY CRAFTED TO THE GRADE LEVEL OF THE STANDARD

**Math Quest Directions**

Welcome! We are about to go on a fun trip but watch out for paths that twist and turn along the way.

Here's how it works:

- You won't always complete each slide in order. Nope! Instead, you may come to a place where you have to make a decision.
- When presented with a decision, click on the link for the next part in the fun trip.
- Sometimes you'll have problems to solve and clues continue through the search solving problems, making.
- If you make the wrong choice, don't panic! There will be hints to get you back on track.

Are you ready for this exciting trip? Alright, let's go!

**Start**

**Let's Do This!**

You check the signpost, hoping it'll give you some sort of clue as to where to go. There are four options: Farmer Joe's house, the pigpen, Farmer Randy's barn, and Farmer Randy's shed.

You must choose which direction to go in!

The loud crying seems to be coming from the direction of Farmer Joe's house. That poor man must be really upset! You should probably check in with him if you have not done so yet.

...going to go? Click on the sign.

**On the way home from school...**

You are on your way home from school, passing by the same signpost and farm that you always do. Today, though, something is different: you can hear someone crying loudly!


You stop walking and look around, trying to figure out where the crying is coming from.

As you listen, you can hear what the upset person is saying. Through tears, he is calling out...

Will someone help me? Someone stole my prize pig! Wiggles is missing from his pig pen and the county fair is in a few hours!

Do you decide to help?  
Click on your decision.

**Yes, let's do this!**      **No, I'm just a kid**



**GET HIGH-QUALITY, ENGAGING RESOURCES**

# WHAT'S THE OBJECTIVE?

- TO DETERMINE WHAT STUDENTS KNOW ABOUT THE CONCEPTS RELATED TO MULTIPLYING BY 10.
- TO BUILD AND PRACTICE READING SKILLS SUCH AS FLUENCY AND COMPREHENSION.
- TO BUILD TECHNOLOGY SKILLS.
- TO CREATE ENGAGEMENT IN THE MATH CLASSROOM.

**Pigpen**

You use your answer as the code for the padlock on the box, wondering why there are so many math problems on this farm. Maybe Farmer Joe is trying to teach his animals math!

The lock clicks open! You flip open the lid of the box and peek inside.



There's a leash inside the box. It looks like something that you would use to take your dog on a walk.

Underneath the leash is a flyer for the county fair. There's a list of farmers in this year's pig-weighing contest. There's Farmer Joe, Farmer Randy, and a few others. The only one that stands out is Farmer Randy. Haven't you seen his name somewhere before?

That's right—it was on the signpost! He must live nearby! He's the only farmer on the flyer that lives close enough to steal wiggles. You pocket the leash, deciding to keep the flyer as well for evidence. Now it's time to visit Farmer Randy. First, though, you need to check the signpost to figure out which direction to head in.

**Back I Go!**

**Pigpen**

That's right! You have the key that Farmer Joe gave you!

You unlock the gate to the backyard and rush over to the pigpen. As you run, you make sure not to step on any tracks. There are footprints in the dirt both inside and outside the pigpen. It's impossible to tell if they belong to Farmer Joe or someone else, though...

As you're looking around at the dusty footprints, you notice a bright blue object in the pigpen. It looks like a collar, but you can't quite tell. You need to get closer!

You try to open the pigpen's gate, but it's locked. You don't have a key this time! However, like the door to Farmer Joe's house, there is a keypad next to the gate's lock. It looks like there's another math problem written nearby, too!

HOW MUCH IS 8 GROUPS OF 70?

490      78      560      640

**SAVE TIME PLANNING WITH DETAILED ACTIVITIES**

# HOW CAN IT BE USED?

Sunflower Shed

You and Wiggles are about to push open the doors to the shed to escape when the doors seem to fly open by themselves.


Suddenly, you're face-to-face with one of Farmer Randy's workers!

"Woah!" He yells out, startled. "Who are you?" The worker realizes you have Wiggles. "What are you doing with our pig?"

"Wiggles isn't yours!" You shout back. "I'm bringing him home to Farmer Joe, where he belongs!"

He looks angry. "No way," he replies. "I won't let you pass."

HOW MUCH IS 4 GROUPS OF 60?



Farmer Randy's Barn

You tap your answer into the keypad. While waiting for the doors to unlock, you look around. It doesn't look like anyone is around right now to see you sneaking into the barn.

The keypad makes a chirp. The barn doors pop open, and you push one open to sneak inside.


You only get a couple steps inside when you hear another voice. Actually, two voices! You duck into a horse stall to hide, listening to the two people talk.

"Don't let anyone into Sunflower Barn," one voice says. He sounds just like Farmer Randy! "I don't want anyone to find out. Make sure you keep everyone away!"

"Yes, sir," the other voice replies. "You can count on me! No one will go near that barn."

What could they be talking about? Just then, Farmer Randy's dog runs up to you. He starts growling! If you don't get him to quiet down, Farmer Randy will find you and know you overheard his conversation! You look around and spot a dog treat dispenser in the corner of the barn. You dash over for a closer look. It seems like you have to solve a math problem to get a treat to drop. You'd better hurry before the farmer's dog starts barking!

WRITE AN EQUATION FOR THE PRODUCT 240.



Farmer Randy's Barn

That's right! You have the county fair flyer you found in the pigpen.

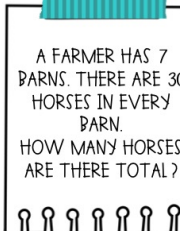
You pull out the poster and hand it to the worker. She looks at it, confused. "What am I supposed to do with this? I already know about the county fair!"

You shake your head and point to the list of farmers in the pig-weighing contest. "Look," you say. "Out of all the farmers in the competition, Farmer Randy is the only one who lives close enough to steal wiggles. All of these other farmers don't live nearby. It would be impossible to steal a pig!"

The woman nods. "Well, that does make sense," she replies slowly. "I guess you can talk to him." She picks up her milk pail and walks off.

Alright! Only one thing left to do now: find Farmer Randy. You decide to start with the barn. When you check, you find that the doors to the barn are locked. Thankfully, there seems to be a keypad that'll unlock them for you! All you've got to do is solve the problem taped to the door-frame.

A FARMER HAS 7 BARN. THERE ARE 30 HORSES IN EVERY BARN. HOW MANY HORSES ARE THERE TOTAL?



## Multiple Uses in the Classroom

- SMALL GROUPS
- MATH CENTERS
- WHOLE CLASS ACTIVITIES
- PARTNER ACTIVITIES
- EARLY FINISHER ACTIVITIES
- AND SO MUCH MORE!

TAKE YOUR WEEKENDS BACK TO DO WHAT YOU LOVE!

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Take **BACK YOUR**  
**WEEKENDS** without  
**SACRIFICING**  
high-quality **RESOURCES!**

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**The Owl Teacher**