

More Short Division

Scene #	Description	Narration
1	A piece of toast pops out of a blue toaster. The toast has the division problem $189/9$ on it.	<p>male narrator: THIS DIVISION PROBLEM DOESN'T HAVE ANY DIGITS UNDERLINED.</p> <p>HERE'S HOW WE FIGURE OUT IF WE HAVE TO WORK A TWO-DIGIT PROBLEM.</p> <p>IF THE FIRST DIGIT UNDER THE DIVISION SIGN IS LESS THAN THE NUMBER WE DIVIDE BY, WE WORK A TWO-DIGIT PROBLEM.</p> <p>WHAT'S THE FIRST DIGIT UNDER THE DIVISION SIGN?</p> <p>WE HAVE 1 DIVIDED BY WHAT NUMBER?</p> <p>WE HAVE 1 DIVIDED BY 9.</p> <p>IS THE FIRST DIGIT UNDER THE DIVISION SIGN LESS THAN 9?</p> <p>IT'S LESS THAN 9, SO WE WORK A TWO-DIGIT PROBLEM.</p> <p>WE WORK 18 DIVIDED BY 9.</p>
2	A black piece of toast pops out of the toaster with a new division problem on it.	<p>NEW PROBLEM.</p> <p>SAY THE DIVISION PROBLEM FOR THE FIRST DIGIT.</p> <p>WE HAVE 8 DIVIDED BY 4.</p> <p>IS THE FIRST DIGIT UNDER THE DIVISION SIGN LESS THAN 4?</p> <p>IT'S NOT LESS THAN 4, SO WE DON'T WORK</p>

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		<p>A TWO-DIGIT PROBLEM.</p> <p>WE WORK 8 DIVIDED BY 4.</p>
3	A toast shaped like a guy with big hair and sunglasses pops out of the toaster.	<p>ONE MORE.</p> <p>SAY THE DIVISION PROBLEM FOR THE FIRST DIGIT.</p> <p>WE HAVE 1 DIVIDED BY 2.</p> <p>IS THE FIRST DIGIT UNDER THE DIVISION SIGN LESS THAN 2?</p> <p>IT'S LESS THAN 2.</p> <p>SO WE WORK A TWO-DIGIT PROBLEM.</p> <p>WE WORK 12 DIVIDED BY 2.</p> <p>REMEMBER, IF THE FIRST DIGIT UNDER THE DIVISION SIGN</p> <p>IS LESS THAN THE NUMBER WE DIVIDE BY,</p> <p>WE HAVE TO WORK A TWO-DIGIT PROBLEM.</p>
4	Two kids are sitting with a Dalmatian watching a cartoon TV screen. It has a division problem on the screen. As the narrator talks the television works through the problems he is talking about.	<p>HERE'S A TRICKY DIVISION PROBLEM.</p> <p>WHAT'S THE FIRST DIGIT UNDER THE DIVISION SIGN?</p> <p>IS IT LESS THAN THE NUMBER WE'RE DIVIDING BY?</p> <p>SO WE UNDERLINE TWO DIGITS.</p> <p>WHAT'S THE ANSWER FOR 16 DIVIDED BY 4?</p> <p>4.</p> <p>AND WE WRITE IT ABOVE THE 6.</p> <p>HERE'S THE TRICKY PART.</p> <p>SAY THE PROBLEM FOR THE NEXT DIGIT.</p>

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		<p>WE HAVE 2 DIVIDED BY 4.</p> <p>IS THAT DIGIT LESS THAN 4?</p> <p>IT IS LESS THAN 4,</p> <p>SO WE HAVE TO UNDERLINE TWO DIGITS.</p> <p>BUT WE HAVE TO SHOW THAT WE TRIED TO DIVIDE 2 BY 4.</p> <p>WE HAVE TO WRITE A 0 ABOVE THE FIRST DIGIT OF 28.</p> <p>NOW WE CAN WRITE THE ANSWER FOR 28 DIVIDED BY 4.</p> <p>WHAT'S THAT ANSWER?</p> <p>7.</p> <p>ONE MORE.</p> <p>WHAT'S THE FIRST DIGIT UNDER THE DIVISION SIGN?</p> <p>IS IT LESS THAN THE NUMBER WE'RE DIVIDING BY?</p> <p>SO WE UNDERLINE TWO DIGITS.</p> <p>WHAT'S THE ANSWER FOR 35 DIVIDED BY 5?</p> <p>7.</p> <p>AND WE WRITE IT ABOVE THE 5.</p> <p>SAY THE DIVISION PROBLEM FOR THE NEXT DIGIT.</p> <p>WE HAVE 2 DIVIDED BY 5.</p> <p>IS THAT DIGIT LESS THAN 5?</p> <p>IT'S LESS THAN 5.</p>
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		<p>SO HOW MANY DIGITS DO WE UNDERLINE?</p> <p>WE UNDERLINE TWO DIGITS.</p> <p>WHAT DO WE DO TO SHOW THAT WE TRIED TO DIVIDE 2 BY 5?</p> <p>WE WRITE A 0 ABOVE THE FIRST DIGIT OF 25.</p> <p>NOW WE CAN WRITE THE ANSWER FOR 25 DIVIDED BY 5.</p> <p>WHAT'S THE ANSWER?</p> <p>5.</p>
5	Two hands are holding an index card with a division problem on it.	<p>WE'RE GOING TO WORK THIS PROBLEM.</p> <p>SAY THE DIVISION PROBLEM FOR THE FIRST DIGIT</p> <p>UNDER THE DIVISION SIGN.</p> <p>WE'VE GOT 6 DIVIDED BY 3.</p> <p>DO WE UNDERLINE ONE DIGIT OR TWO DIGITS?</p> <p>WE UNDERLINE ONE DIGIT.</p> <p>WHAT'S THE ANSWER?</p> <p>2.</p> <p>SAY THE PROBLEM FOR THE NEXT DIGIT</p> <p>UNDER THE DIVISION SIGN.</p> <p>WE'VE GOT 2 DIVIDED BY 3.</p> <p>DO WE UNDERLINE ONE DIGIT OR TWO DIGITS?</p> <p>WE HAVE TO UNDERLINE TWO DIGITS.</p> <p>SO WHAT DO WE HAVE TO WRITE IN THE ANSWER?</p>

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		<p>WE WRITE A 0 IN THE ANSWER.</p> <p>THEN WE WRITE THE ANSWER FOR 27 DIVIDED BY 3.</p> <p>WHAT'S THAT ANSWER?</p> <p>9.</p> <p>SAY THE PROBLEM FOR THE NEXT DIGIT</p> <p>UNDER THE DIVISION SIGN.</p> <p>WE'VE GOT 9 DIVIDED BY 3.</p> <p>WE CAN UNDERLINE ONLY ONE DIGIT.</p> <p>WHAT'S THE ANSWER?</p> <p>3.</p>
6	An orange number line goes across the screen. Math problems appear as the narrator talks about them.	<p>male narrator: HERE'S A NUMBER LINE</p> <p>FOR COUNTING BY NINES.</p> <p>WE'LL USE THIS NUMBER LINE FOR SOLVING PROBLEMS LIKE THIS.</p> <p>IT SAYS THAT 29 EQUALS 9 TIMES SOME NUMBER,</p> <p>PLUS A REMAINDER.</p> <p>29 IS NOT A NUMBER FOR NINES.</p> <p>THE NUMBER ON THE NUMBER LINE THAT COMES JUST BEFORE 29 IS 27.</p> <p>9 TIMES 3 IS 27.</p> <p>WE'RE AT 27.</p> <p>WE HAVE TO ADD HOW MANY TO GET TO 29?</p> <p>WE ADD 2.</p> <p>THAT'S THE REMAINDER.</p>

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		<p>29 EQUALS 9 TIMES 3, PLUS A REMAINDER OF 2.</p> <p>NEW PROBLEM.</p> <p>48 EQUALS 9 TIMES SOME NUMBER, PLUS A REMAINDER.</p> <p>48 IS NOT A NUMBER FOR NINES.</p> <p>WHAT'S THE NUMBER FOR NINES THAT COMES JUST BEFORE 48?</p> <p>45.</p> <p>9 TIMES WHAT NUMBER IS 45?</p> <p>9 TIMES 5 IS 45.</p> <p>HOW MANY DO YOU HAVE TO ADD TO GET TO 48?</p> <p>YES, 3.</p> <p>48 EQUALS 9 TIMES 5, PLUS A REMAINDER OF 3.</p>
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