5TH GRADE MATH CURRICULUM MAP 2nd QUARTER- 45 DAYS

Days	Standard	practices	explanation	resources
	5.NBT.B.6. Find whole-number	5.MP.2. Reason abstractly and	☑ Using expanded notation ~ 2682 ÷ 25 = (2000 + 600 +	
	quotients of whole numbers with up	quantitatively.	80 + 2) ÷ 25	envision topics
	to four-digit dividends and two-digit	5.MP.3. Construct viable	Using his or her understanding of the relationship	3,4,5 galileo
	divisors, using strategies based on	arguments and critique the	between 100 and 25, a student might think:	
	place value, the properties of	reasoning of others.	o I know that 100 divided by 25 is 4 so 200 divided by	
	operations, and/or the relationship	5.MP.4. Model with mathematics.	25 is 8 and 2000 divided by 25 is 80.	
	between multiplication and division.	5.MP.5. Use appropriate tools	o 600 divided by 25 has to be 24.	
	Illustrate and explain the calculation	strategically.	o Since 3 x 25 is 75, I know that 80 divided by 25 is 3	
	by using equations, rectangular	5.MP.7. Look for and make use of	with a reminder of 5. (Note that a student might divide	
	arrays, and/or area models.	structure.	into 82 and not 80.)	
			o I can't divide 2 by 25 so 2 plus the 5 leaves a	
			remainder of 7.	
6 days			o 80 + 24 + 3 = 107. So, the answer is 107 with a	
·			remainder of 7.	
			Ising an equation that relates division to	
			multiplication, 25 x n = 2682, a student might estimate	
			the answer to be slightly larger than 100 because she	
			recognizes that $25 \times 100 = 2500$.	
			I Example: 968 ÷ 21	
			Using base ten models, a student can represent 962	
			and use the models to make an array with one	
			dimension of 21. The student continues to make the	
			array until no more groups of 21 can be made.	
			Remainders are not part of the array.	
			including of the part of the array.	

7 days	5.NF.A.1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators	 5.MP.2. Reason abstractly and quantitatively. 5.MP.4. Model with mathematics. 5.MP.7. Look for and make use of structure 	Students should apply their understanding of equivalent fractions developed in fourth grade and their ability to rewrite fractions in an equivalent form to find common denominators. They should know that multiplying the denominators will always give a common denominator but may not result in the smallest denominator.	engage NY 1-16 envisions topic 9,10 galileo
6 days	5.NF.A.2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	 5.MP.1. Make sense of problems and persevere in solving them. 5.MP.2. Reason abstractly and quantitatively. 5.MP.3. Construct viable arguments and critique the reasoning of others. 5.MP.4. Model with mathematics. 5.MP.5. Use appropriate tools strategically. 	Jerry was making two different types of cookies. One recipe needed ¾ cup of sugar and the other needed (2)/3 cup of sugar. How much sugar did he need to make both recipes? Mental estimation: A student may say that Jerry needs more than 1 cup of sugar but less than 2 cups. An explanation may compare both fractions to ½ and state that both are larger than ½ so the total must be more than 1. In addition, both fractions are slightly less than 1 so the sum cannot be more than 2.	Engage Ny 3-16 envisions topic 9,10 galileo

	5.NF.B.3. Interpret a fraction as	5.MP.1. Make sense of problems	Ten team members are sharing 3 boxes of cookies.	Engage Ny 2-5
	division of the numerator by the	and persevere in solving them.	How much of a box will each student get?	envisions topic 11
	denominator (a/b = a , b). Solve word	5.MP.2. Reason abstractly and	When working this problem a student should recognize	galileo
	problems involving division of whole	quantitatively.	that the 3 boxes are being divided into 10 groups, so	
	numbers leading to answers in the	5.MP.3. Construct viable	s/he is seeing the solution to the following equation,	
	form of fractions or mixed numbers,	arguments and critique the	10 x n = 3 (10 groups of some amount is 3 boxes)	
	e.g., by using visual fraction models	reasoning of others.	which can also be written as $n = 3 \div 10$. Using models	
	or equations to represent the	5.MP.4. Model with mathematics.	or diagram, they divide each box into 10 groups,	
	problem. For example, interpret 3/4	5.MP.5. Use appropriate tools	resulting in each team member getting 3/10 of a box.	
	as the result of dividing 3 by 4, noting	strategically.	Two afterschool clubs are having pizza parties. For the	
	that 3/4 multiplied by 4 equals 3, and	5.MP.7. Look for and make use of	Math Club, the teacher will order 3 pizzas for every 5	
	that when 3 wholes are shared	structure.	students. For the student council, the teacher will	
6 days	equally among 4 people each person		order 5 pizzas for every 8 students. Since you are in	
· ·	has a share of size 3/4. If 9 people		both groups, you need to decide which party to attend.	
	want to share a 50-pound sack of rice		How much pizza would you get at each party? If you	
	equally by weight, how many pounds		want to have the most pizza, which party should you	
	of rice should each person get?		attend?	
	Between what two whole numbers		The six fifth grade classrooms have a total of 27 boxes	
	does your answer lie?		of pencils. How many boxes will each classroom	
			receive?	
			Students may recognize this as a whole number	
			division problem but should also express this equal	
			sharing problem as 27/6. They explain that each	
			classroom gets 27/6 boxes of pencils and can further	
			determine that each classroom get 4 3/6 or 4(1)/2	

understandings of multiplication to multiply a fraction or whole number by a fraction. a. Interpret the product (a/b) $$ q as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations a $$ q $\hat{+}$ b. For example, use a visual fraction model to show (2/3) $\hat{-}$ 4 = 8/3, and create a story context for this equation. Do the same with (2/3) $\hat{-}$ (4/5) = 8/15. (In general, (a/b) $\hat{-}$ (c/d) = ac/bd). and perse 5.MP.2. Re quantitati 5.MP.3. Co argument reasoning 5.MP.5. U strategica 5.MP.6. At 5.MP.7. Lo	vere in solving them. eason abstractly and vely. onstruct viable s and critique the of others. lodel with mathematics. se appropriate tools lly. ttend to precision. bok for and make use of in repeated reasoning. proper fractions, imp numbers. They multi accurately as well as and non-contextual s • As they multiply fra- think of the operatio $3 \times (6 \div 5)$ or $(3 \times 6/5)$ $(3 \times 6) \div 5$ or $18 \div 5$ (• Students create a s Isabel had 6 feet of v the paper to wrap so have left? Every day Tim ran 3/ 6 days? (Interpreting Examples: Building o multiplication • Rectangle with dim x $3 = 6$.	proper fractions, and mixed iply fractions efficiently and solve problems in both contextual situations. actions such as 3/5 x 6, they can on in more than one way. 5) (18/5) story problem for 3/5 x 6 such as: wrapping paper. She used 3/5 of ome presents. How much does she	Engage NY 6-12 envisions topic 11 galileo
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	ENER & Solve real world problems	E MD 1 Make conce of problems	Even hought 6 recess for his methor $\frac{3}{2}$ of them were	Engago Ny 10 12
	5.NF.B.6. Solve real world problems	5.MP.1. Make sense of problems	Evan bought 6 roses for his mother. 2/3 of them were	
	involving multiplication of fractions	and persevere in solving them.	red. How many red roses were there?	envisions topic 11
	and mixed numbers, e.g., by using	5.MP.2. Reason abstractly and	Using a visual, a student divides the 6 roses into 3	galileo
	visual fraction models or equations	quantitatively.	groups and counts how many are in 2 of the 3 groups.	
	to represent the problem.	5.MP.3. Construct viable		
		arguments and critique the	A student can use an equation to solve. 2/3×6=12/3=4	
		reasoning of others.	red roses	
		5.MP.4. Model with mathematics.	Mary and Joe determined that the dimensions of their	
		5.MP.5. Use appropriate tools	school flag needed to be 1 1/3 ft. by 2 1/4 ft. What will	
		strategically.	be the area of the school flag?	
		5.MP.6. Attend to precision.	A student can draw an array to find this product and	
		5.MP.7. Look for and make use of	can also use his or her understanding of decomposing	
7 days		structure.	numbers to explain the multiplication. Thinking ahead	
		5.MP.8. Look for and express	a student may decide to multiply by 1 1/3 instead of 2	
		regularity in repeated reasoning.	1/4.	
			The explanation may include the following:	
			First, I am going to multiply 2 1/4 by 1 and then by	
			1/3.	
			When I multiply 2 1/4 by 1, it equals 2 1/4.	
			Now I have to multiply 2 1/4 by 1/3.	
			1/3 times 2 is 2/3.	
			1/3 times 1/4 is 1/12.	
			So the answer is 2 1/4 + 2/3 + 1/12 or 2 3/12 + 8/12 +	
			1/12 = 2 12/12 = 3	

	5.MD.B.2. Make a line plot to display	5.MP.1. Make sense of problems	• Ten beakers, measured in liters, are filled with a	Engage NY 1
	a data set of measurements in	and persevere in solving them.	liquid.	envisions topic 14
	fractions of a unit (1/2, 1/4, 1/8). Use	5.MP.2. Reason abstractly and		galileo
	operations on fractions for this grade	quantitatively.	The line plot above shows the amount of liquid in liters	
	to solve problems involving	5.MP.4. Model with mathematics.	in 10 beakers. If the liquid is redistributed equally, how	
	information presented in line plots.	5.MP.5. Use appropriate tools	much liquid would each beaker have? (This amount is	
	For example, given different	strategically.	the mean.)	
	measurements of liquid in identical	5.MP.6. Attend to precision.	Students apply their understanding of operations with	
6 days	beakers, find the amount of liquid	5.MP.7. Look for and make use of	fractions. They use either addition and/or	
	each beaker would contain if the	structure.	multiplication to determine the total number of liters	
	total amount in all the beakers were		in the beakers. Then the sum of the liters is shared	
	redistributed equally.		evenly among the ten beakers	