THIRD SPACE LEARNING

Back to School Math Quiz

A formative assessment of Grade 3 content to diagnose learning gaps and inform planning for the school year

Grade 4

Questions

Name: ..... Class: .....

Date: ..... Score: .....

Answer the questions. You can use the space provided below the question for working out if you need it.

1 Round 786 to the nearest ten.

2 Round 4,345 to the nearest hundred.

3 387 + 275 =

4 654 – 263 =

5 6 × 40 =

6 Jon has 8 jars with 4 marbles in each jar. Write an equation to represent the total number of marbles Jon has.

7 Freya's photo album has 96 pictures. If there are 8 pictures on each page, how many pages are there?

8 Fill in the blanks to make each equation true.

$7 \times 3 =$ ____

____ $\div 9 = 3$

$5 \times$ ____ $= 40$

$48 \div$ ____ $= 8$

9 $3 \times 6 \times 2 =$

10 Use the distributive property to solve.

$$4 \times (9 + 8)$$

11 Solve each equation.

$6 \times 9 =$

$7 \times 2 =$

$5 \times 8 =$

$12 \times 8 =$

$4 \times 3 =$

$11 \times 4 =$

12 Solve each equation.

$64 \div 8 =$

$84 \div 7 =$

$32 \div 4 =$

$121 \div 11 =$

$36 \div 12 =$

$49 \div 7 =$

13 Mrs. Loomis ordered a shipment of pencils for her classroom. The shipment contained 12 boxes of pencils with 10 pencils in each box. She divided the pencils evenly among the 6 tables in the classroom. How many pencils were given to each table?

14 A 5th grade class was trying to raise $500 for a charity. In the class, there are 29 children. If each child raises $9, how much more money do they need to raise to reach their target?

15 Jana has 18 stickers. Nolan has twice as many stickers as Jana. Paul has 7 fewer stickers than Nolan. How many stickers does Paul have?

16 Find the rule and complete the table.

Input	Output
4	12
6	18
8	
10	
12	

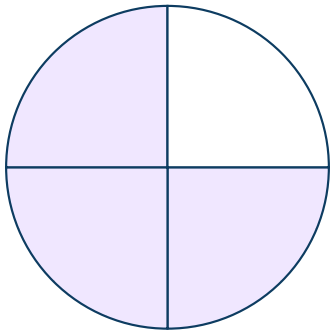
Rule

17 Circle the word that makes each statement true.

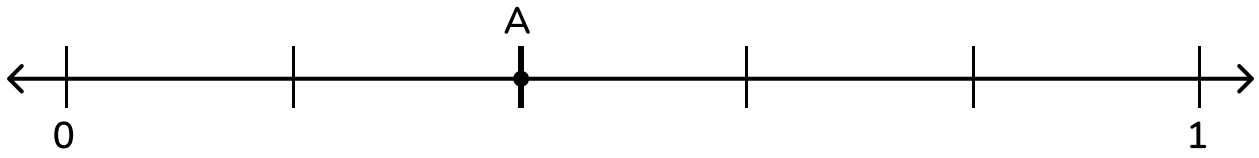
a The product of an even number and an even number will always be [even / odd].

b The product of an odd number and an odd number will always be [even / odd].

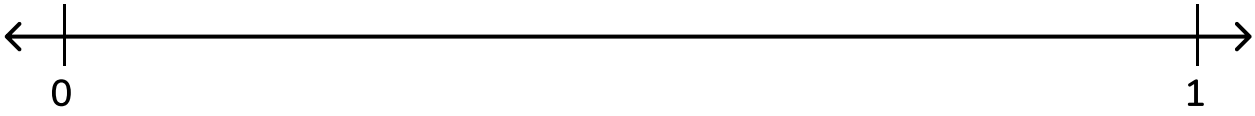
18 What fraction of the circle is shaded?



19 What fraction is represented by point A on the number line?



20 Patition the number line into thirds and label the fractions. Draw a triangle above $\frac{2}{3}$.

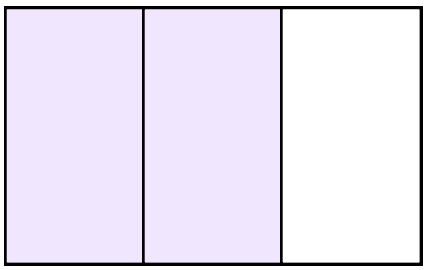


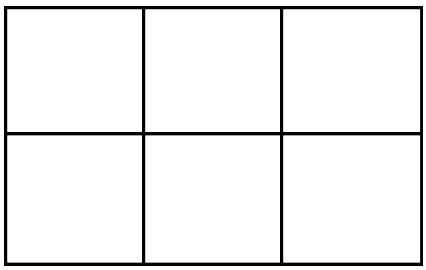
21 Circle the fractions that are equivalent to $\frac{1}{2}$.

$\frac{2}{3}$ $\frac{4}{6}$ $\frac{4}{8}$ $\frac{1}{3}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{3}{6}$

22 Shade the rectangle to show a fraction equivalent to $\frac{2}{3}$. Write the equivalent fraction in the box.

$\frac{2}{3}$





23 Write 8 as a fraction.

24 Write <, > or = in the box to make the statement true.

$\frac{1}{8}$ $\quad$ $\frac{1}{6}$

25 Write <, > or = in the box to make the statement true.

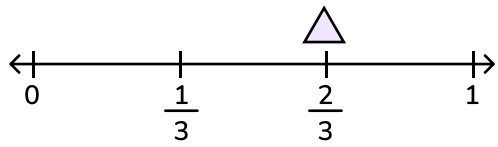
$\frac{5}{9}$ $\quad$ $\frac{2}{9}$

Answers

Question number	Question	Answer and Guidance	Standard
1	Round 786 to the nearest ten.	790 Ensure students identify the key digit and apply the rounding rule accurately.	3.NBT.1
2	Round 4,345 to the nearest hundred.	4,300 Ensure students identify the key digit and apply the rounding rule accurately.	3.NBT.1
3	387 + 275 =	662 Check that students have used regrouping methods correctly.	3.NBT.2
4	654 – 263 =	391 Check that students have used exchanging methods correctly.	3.NBT.2
5	6 × 40 =	240 Students are expected to multiply 1-digit whole numbers by multiples of 10.	3.NBT.3
6	Jon has 8 jars with 4 marbles in each jar. Write an equation to represent the total number of marbles Jon has.	8 × 4 = 32 marbles	3.OA.1 3.OA.3
7	Freya's photo album has 96 pictures. If there are 8 pictures on each page, how many pages are there?	96 ÷ 8 = 12 pages	3.OA.2 3.OA.3

Question number	Question	Answer and Guidance	Standard
8	Fill in the blanks to make each equation true. 7 × 3 = ? ? ÷ 9 = 3 5 × ? = 40 48 ÷ ? = 8	21 27 8 6	3.OA.4
9	3 x 6 x 2 =	36 Multiplying the numbers in a different order may provide a useful discussion here since students will reach the same answer.	3.OA.5
10	Use the distributive property to solve. 4 × (9 + 8)	 4 × (9 + 8) (4 × 9) + (4 × 8) 36 + 32 = 68	3.OA.6
11	Solve each equation. 6 x 9 = 7 × 2 = 5 × 8 = 12 × 8 = 4 × 3 = 11 × 4 =	54 14 40 96 12 44 Students are expected to be able to recall all multiplication facts up to 12 x 12.	3.OA.7
12	Solve each equation. 64 ÷ 8 = 84 ÷ 7 = 32 ÷ 4 = 121 ÷ 11 = 36 ÷ 12 = 49 ÷ 7 =	8 12 8 11 3 7 Students are expected to be able to recall all division facts up to 12 x 12.	3.OA.7

Question number	Question	Answer and Guidance	Standard
13	Mrs. Loomis ordered a shipment of pencils for her classroom. The shipment contained 12 boxes of pencils with 10 pencils in each box. She divided the pencils evenly among the 6 tables in the classroom. How many pencils were given to each table?	20 Students must first find the total number of pencils by multiplying 12 × 10 = 120. Then the total number of pencils is divided by the number of tables. 120 ÷ 6 = 20	3.OA.8
14	A 5th grade class was trying to raise $500 for a charity. In the class, there are 29 children. If each child raises $9, how much more money do they need to raise to reach their target?	$239 Students must first multiply 29 × $9 = $261, then subtract the total from $500. $500 – $261 = $239 Check students are using exchanging methods correctly. Some students may forget to include the unit ($).	3.OA.8
15	Jana has 18 stickers. Nolan has twice as many stickers as Jana. Paul has 7 fewer stickers than Nolan. How many stickers does Paul have?	29 Students need to find how many stickers Nolan has first. 18 + 18 (or 18 × 2) = 36. Then they need to subtract to find the number of stickers Paul has. 36 – 7 = 29	3.OA.8
16	Find the rule and complete the table.	8: 24 10: 30 12: 36 Rule: Multiply by 3	3.OA.9

Question number	Question	Answer and Guidance	Standard
17	Circle the word that makes each statement true. a) The product of an even number and an even number will always be [even/odd]. b) The product of an odd number and an odd number will always be [even/odd].	a) even b) odd	3.OA.9
18	What fraction of the circle is shaded?	$\frac{3}{4}$	3.NF.1
19	What fraction is represented by point A on the number line?	$\frac{2}{5}$	3.NF.2
20	Patition the number line into thirds and label the fractions. Draw a triangle above ⅔.		3.NF.2
21	Circle the fractions that are equivalent to ½.	$\frac{4}{8}$ $\frac{2}{4}$ $\frac{3}{6}$ Check students understand that for two fractions to be equivalent, their numerators and denominators must be in the same ratio.	3.NF.3.a 3.NF.3.b
22	Shade the rectangle to show a fraction equivalent to ⅔. Write the equivalent fraction in the box.	4 boxes shaded, $\frac{4}{6}$	3.NF.3.a 3.NF.3.b

Question number	Question	Answer and Guidance	Standard
23	Write 8 as a fraction.	$\frac{8}{1}$ Students should understand how to express a whole number as a fraction.	3.NF.3.c
24	Write <, > or = in the box to make the statement true. ⅛ ? ⅙	< Students should understand that when comparing fractions with the same numerator, the larger fraction will have the smaller number as a denominator.	3.NF.3.d
25	Write <, > or = in the box to make the statement true. ⅝ ? ⅔	> Students should understand that when comparing fractions with the same denominator, the larger fraction will have the larger number as a numerator.	3.NF.3.d

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