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Counting and Computation with Whole Numbers

		r	
1	About how many days has a child in year 1 at school	Α	200
	lived?	В	2000
		С	20 000
		D	200 000
2	About how many triangles are there here?	Α	20
		В	50
		С	100
		D	200
		Ε	400
3	A school has 610 children. If 98 children are away on a	Α	400
	trip, <i>about</i> how many are still at school?	В	500
		С	600
		D	700
4	Whitney has ten dollars. She has six dollars less than		
	Rebecca does. How many dollars does Rebecca have?		
5	Barb is a nine year old at my school. She says that she is	Α	Yes
	30 000 days old. Is that possible? Say why.	В	No
		С	Maybe.
		Tell	how you decided.
6	Without calculating the exact answer, circle the best	Α	Greater than 450
	estimate for:	В	Less than 450
	145 x 4	С	Impossible to tell
			without calculating

_			200
7	<i>Without calculating the exact answer,</i> circle the best	Α	299
	estimate for:	В	399
	21 x 19	С	499
0	Which two numbers multiplied together give an answer		
8	closest to the target number?		
	4 18 50 37		
	4 18 50 57		
	Target Number : 75		and
-	·		
9	Which two numbers multiplied together give an answer		
	closest to the target number?		
	4 18 50 37		
	Target Number : 1000		and
	Target Number . [1000]		unu
10	930 x 134 is equal to 124620.		
-0	Use this to find the answer to:		
	$124620 \div 93$		
			400
11	A cat eats 600 g of fish in 4 days. How many grams will	Α	400 g
	the cat eat in 6 days?	В	600 g
		С	800 g
		D	900 g
			e
		Ε	1000 g
12	A trip took 6 hours travelling at an average speed of 80		
	kilometres per hour. The return trip took 4 hours.		
	What was the average speed for the round trip?		

Effect of Operations - Whole Numbers

13	The digits are 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. Put one digit in each box so that the answer will be as <i>big</i> as possible. Note that digits 4, 2, 3, and 8 have already been used and therefore should not be used again. Use any digit only once.	4	- 238 = ?
14	The digits are 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. Put one digit in each box so that the answer will be as <i>big</i> as possible. Note that digits 4, 3, 1, and 2 have already been used and therefore should not be used again. Use any digit only once.	431	- 2 = ?
15	Five bugs each have fifteen spots on their back. Which of these tells us how many spots there are altogether?	A B C D	5 + 15 15+15+15+15+15 15 + 5 5 + 5 + 5 + 5 + 5

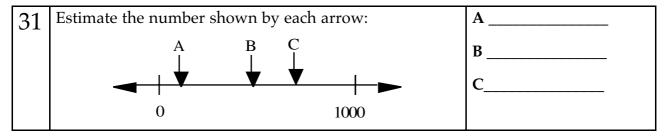
			1 0.11.14
16	When a 3 digit number is added to a 3 digit number the result is:	Α	always a 3 digit number
		В	always a 4 digit number
		C	always a 5 digit number
		D	either a 3,4 or 5 digit number
		Ε	either a 3 or 4 digit number
17	When a 2-digit number is multiplied by a 2-digit number, the result is:	Α	Always a 3 digit number
		В	Always a 4 digit number
		C	Either a 3 or 4 digit number
		D	Sometimes a 5 digit number
18	Austin has a \$50 note and he spends \$29. He gets \$24 in	Α	29 + 24
10	change.	В	24 + 50
	Which sum could he do to check if this is the right	C	50 + 24
	change?	D	50 + 29
19	Without calculating the exact answer, circle the best	Α	4000
	estimate for: 45 x 105	В	4600
		С	5200

Equivalent Expressions - Whole Numbers

		A B C D	3 15 18 33	
20	Jim has balanced some bags of marbles. The numbers show how many marbles are in each bag. How many marbles are in the bag marked A? (Circle the correct answer)			
21	Barbara has balanced some bags of marbles. The numbers show how many marbles are in the bags. How many marbles are in the bag marked M?	A B C D E	6 9 15 24 42	

	The former has stared all his apples in 90 haves		2
22	The farmer has stored all his apples in 80 boxes with 40 apples in each box. He now needs to repack	A B	2 40
	them all into 40 new boxes. How may apples will there	D C	80
	be in each new box.	D	120
23	Without calculating the exact answer, circle the largest	A	120 18 x 17
23	answer.	В	16 x 18
		С	17 x 19
24	Without calculating answers, circle the expression that	Α	145 x 4
41	represents the larger amount.	В	144+146+148+150
25		Α	must be 16
	$16 \ge 0 = 0$	В	must be 160
	The number in the box	С	must be 0
		D	could be any
			number
26		Α	must be 0
	15 x = 15	В	must be $\frac{1}{15}$
		С	must be 1
	The number in the box	D	must be 15
		Ε	could be any
			number
27	93 x 134 is equal to 12462. Use this to write the answer to 93 x 135		
28	Write $>$ or $=$ or $<$ to make this a true statement.	456	$\div 8$ 456 x $\frac{1}{8}$
29	A four digit number is represented by \Box	Α	$30 \times 40 > \square \square \square$
	If $\Box \Box \Box \Box \dot{\Box} \div 30 > 40$, then which of these	В	30 x 40 <
	statements is true?	С	30 x □□□□<40
		D	$40 \times \square \square \square < 30$
30	Jim bought 3 sleeping bags at \$98 each. How could he	Α	3 x \$100 minus \$1
	work out how much he spent?	В	3 x \$100 minus \$2
		С	3 x \$100 minus \$3
		D	3 x \$100 minus \$6

Multiple Representations - Whole Numbers



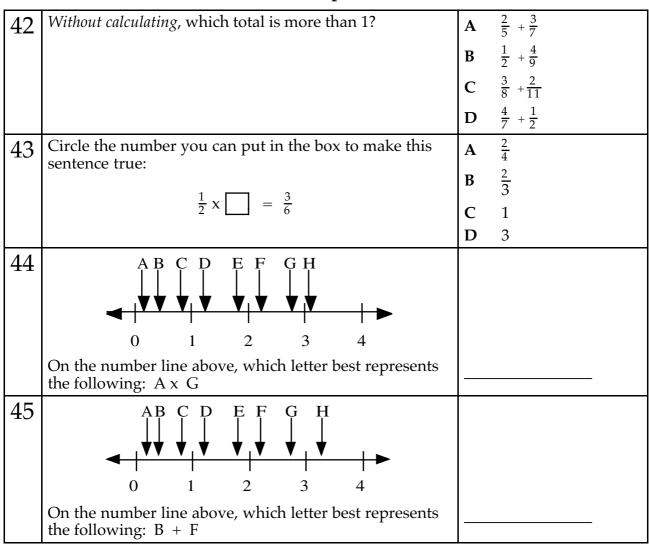
Number Concepts - Whole Numbers

32	Here are five digits: 2, 6, 3, 5, 1. Arrange <i>all</i> these digits to make the smallest number possible. Use each digit only once.	
33	Here are five digits: 2, 6, 3, 5, 1. Arrange them to make the number nearest to 20 000. Use each digit once.	
34	There is a cross on the first circle. Put a cross on the seventh circle.	0000
35	Thirty-four is the same as 34.	
	Four hundred and three is the same as:	
36	Thirty-four is the same as 34.	
	Six thousand and ninety-two is the same as:	
37	If I have \$378 in my savings account and withdraw all my money what is the maximum number of 10 dollar notes would the bank be willing to give me?	

Counting and Computation - Fractions

41	Use two of the numbers 3, 4, 9, 12	C D E	9 20 25	
40	Austin had a \$5 note which he changes into 20 cent coins. How many coins will he get?	A B	4 5	
		C D	6 8	
57	cut in half. How many pieces of watermelon are there now? Circle your answer.	B	4	
39	A watermelon is cut into quarters. Then each quarter is	Α	2	
	Ben took all the others from the bag. How many apples were there in the bag to start with?			
	ÉÉÉÉ			
38	Peter took one third of the apples from a bag. Here are Peter's apples:			

Number Concepts - Fractions



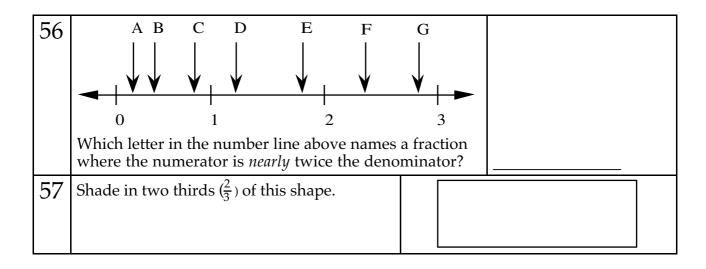
Equivalent Expressions - Fractions

46	Write < or = or > to	make this a true statement.	$5 \ge 7\frac{1}{2}$ 35 + $\frac{1}{2}$
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Multiple Representations - Fractions

47	<i>About</i> how much of this box is shaded? G answer as a <i>fraction</i> .] ive your	
48	Shade $\frac{3}{4}$ of this rectangle.		

		-		
49	What fraction matches the letter X on this number line? Circle the correct answer.	Α		$\frac{1}{2}$
	X	В		$\frac{1}{3}$
	\perp	C		$\frac{1}{7}$
		D		$\frac{1}{5}$
	0 1			-
50	Circle the fraction, which shows how much has been shaded.	Α		$\frac{1}{2}$
		В		$\frac{2}{6}$
		C		$\frac{4}{6}$
		D		$\frac{4}{2}$
51	Shade in one quarter of this rectangle.			
52	Place the numbers $\frac{1}{10}$ and $\frac{4}{5}$ in their correct			
	positions on this number line:			
		-		1
53	You are going to walk <i>once</i> around a square-shaped field. You start at the corner marked S and move in the	S	┍──	▶
	direction shown by the arrow. Mark with an X where you will be after $\frac{1}{3}$ of your walk.			
	you will be after $\frac{1}{3}$ of your wark.			
54	Circle all the statements that are true about the number	A		It is greater than $\frac{1}{2}$
JT	$\frac{2}{5}$.	B		It is the same as 2.5
		C		It is equivalent to
				0.4
		D		It is greater than $\frac{1}{3}$
55	A B C D E F G			
	0 1 2 3			
	Which letter in the number line above names a fraction where the numerator is <i>slightly more</i> than the			
	denominator?			



Number Concepts - Fractions

	_			
58	Tom cuts a cake into four equal pieces and eats two of them. What fraction of the whole cake is left?			
59	How many ten cents make a dollar?			
60	$\frac{3}{4}$ is a fraction between $\frac{1}{2}$ and 1. Write two other fractions, between $\frac{1}{2}$ and 1.			and
61	Circle the fraction which represents the largest amount:	A C	5 6 5 8	$ \mathbf{B} \frac{5}{7} \\ \mathbf{D} \frac{5}{9} $
62	Put two of the numbers 4, 9, 12 in the boxes make a fraction as close as possible to $\frac{2}{3}$.			
63	How many different <i>fractions</i> are there between $\frac{2}{5}$ and $\frac{3}{5}$?	A B	Nor One	ne. e. What is it?
	Circle your answer and, if there is a blank, fill it in.	C D		ew. Give two: and s. Give two: and
64	Write a number in the box to make a fraction that represents a number between 2 and 3.			8
65	In the fraction $\frac{1}{8}$ the numerator is 1. Fill in the boxes to make a fraction between 0 and $\frac{1}{10}$ whose numerator is <i>not</i> 1.			

66	Circle all fractions listed here that are greater than $\frac{3}{4}$ but less than 1.	23	<u>5</u> 8	$\frac{4}{5}$	$\frac{7}{10}$	$\frac{4}{3}$	
67	$\frac{1}{3}$ is a fraction between $\frac{1}{2}$ and $\frac{1}{4}$.						
	Name another fraction between $\frac{1}{2}$ and $\frac{1}{4}$.						

Counting and Computation - Decimals

68	Ten bottles of juice cost \$7.95 at one store.	Α	First store
	I can get five bottles for \$4.15 at a second	В	Second store
	store. Where is the juice cheaper - at the first or second store?	Tell	how you decided:

Effect of Operations -Decimals

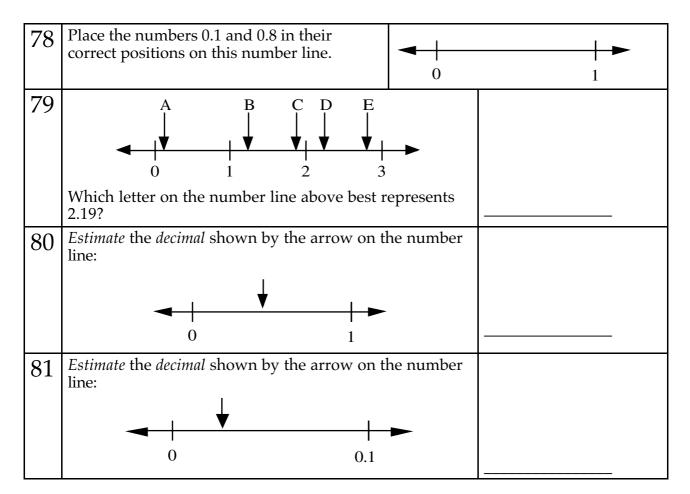
	_		
69	Without calculating the exact answer circle the best	Α	more than 29
0,	estimate for:	В	less than 29
	29 x 0.98	C	impossible to tell without working it out
70	Which is the greatest number?	Α	29 + 0.8
		В	29 x 0.8
		С	$29 \div 0.8$
		D	29 - 0.8
71	Without calculating the exact answer, circle the best	Α	a lot less than 87
	estimate for: 87 x 0.09	В	a little less than 87
		С	a little more than 87
		D	a lot more than 87
72	Only one of the answers is correct. <i>Without calculating,</i>	Α	45 x 1.05 = 39.65
	decide which one it is, and circle it.	В	$4.5 \ge 6.5 = 292.5$
		С	87 x 1.076 = 93.61
		D	$585 \ge 0.95 = 595.45$
73	Without calculating the exact answer, circle the best	Α	a lot less than 54
_	estimate for: $54 \div 0.09$	В	a little less than 54
		С	a little more than 54
		D	a lot more than 54
74	Without calculating the exact answer, circle the best	Α	less than 29
	estimate for: $29 \div 0.8$	В	equal to 29
		С	greater than 29
		D	impossible to tell without calculating

75	Mary had \$426 and spent 0.9 of it on clothes. <i>Without calculating the exact answer,</i> circle the best estimate for	Α	slightly less than \$426
	how much she <i>spent</i> .	В	much less than \$426
		C	slightly more than \$426
		D	impossible to tell without calculating

Equivalent Expressions - Decimals & Mixed

76	0.5 x 840 is the same as	Α	840÷2
		В	5 x 840
		С	5 x 8400
		D	840 ÷ 5
		Ε	0.50 x 84
77	Circle the number which can be put in <i>both</i> boxes to	Α	0
	make the sentence true:	В	0.1
	243 x = x 24.3	С	1
		D	10

Multiple Representations - Decimals and Mixed



-			
82	Circle the decimal which best represents the amount of	Α	0.018
	the box shaded.	В	0.15
		C	0.4
		D	0.801
		Ε	0.52
83	Circle the decimal which best represents the amount of	Α	0.018
00	the box shaded.	В	0.15
		С	0.45
		D	0.801
		Ε	0.52
84			
	0 0.01		
	<i>Estimate</i> the decimal shown by the arrow on the number line:		
85	Put these numbers in order, starting with the smallest on the top row.		
	$0.595 \frac{3}{5} 61\% \qquad 0.3 \qquad 30.5\%$		

Number Concepts - Decimals

86	For a long time Jane has been putting only 10 cent coins in her piggy bank. Last night she opened it and counted her money. She had \$46.70. How many 10 cent coins were in the bank?		
87	Scott ran 100 metres in 14.52 seconds. Kelly took 2 tenths of a second longer. How long did it take Kelly to run 100 metres?	A B C D E	34.52 seconds 16.52 seconds 14.72 seconds 14.54 seconds 14.50 seconds
88	How many different decimals are there between 1.52 and 1.53? Circle your answer and, if there is a blank, fill it in.	A B C D	None. One. What is it? A few. Give two: and Lots. Give two: and

Counting and Computation - Percentages

89	A student increased his exam score from 40 to 50. What percentage increase is this?		10%
	percentage increase is this.	B C	25% 50%
		D	90%
90	Last week a diary cost \$4.50. This week there is 10% off the cost of all diaries. What is the cost of the diary this week?		

The Effect of Operations Percentages

91	Mary had \$426 and spent 90% of the money on clothes. <i>Without calculating an exact answer,</i> circle the best estimate for how much she spent.	A B C D	slightly less than \$426 much less than \$426 slightly more than \$426 impossible to tell without calculating
92	A tank holds 1000 fish. If I increase the number by 50%, how many fish will there be now in the tank?	A B C D	500 1050 1500 2000
93	Dale had \$150. She spent 100% of it. How much money did she have left?	A B C D E F	\$0 \$50 \$100 \$150 \$250 \$300