Name _____

Topic 12
© Assessment

1. Heather writes a number that shows 30 parts of 100. Select all that could be Heather's number.

- ☐ 0.30
- ☐ $\frac{3}{100}$
- ☐ $\frac{30}{10}$
- ☐ 0.3
- ☐ $\frac{30}{100}$

2. Which symbol makes the comparison true? Write the correct symbol from the box.

32.76 ◯ 32.65

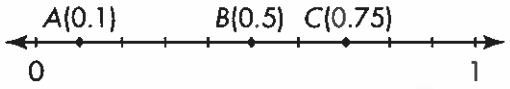
< > =

3. Jackson buys a book for $12.85 and spends $5.89 for lunch. How much more did the book cost than lunch? Draw or use coins and bills to solve.

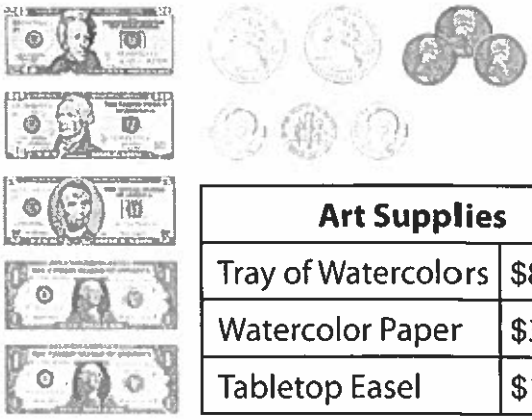
Ⓐ $5.96 Ⓒ $7.86

Ⓑ $6.96 Ⓓ $18.74

4. Which point is incorrectly labeled? Explain.



5. Maria takes the money shown to the art supply store.



Art Supplies	
Tray of Watercolors	$8.78
Watercolor Paper	$3.45
Tabletop Easel	$17.50

Part A

Does Maria have enough money for all three items? Explain.

Part B

Maria finds an art book on sale for $12.00. Can she buy all 4 items? If not, how much more money does Maria need?

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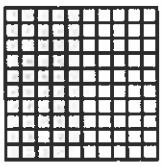
6. Write a fraction and a decimal that represent the part of the grid that is shaded.



7. Draw a line from each decimal to its equivalent fraction.

3	$\frac{3}{10}$
30	$\frac{30}{10}$
0.3	$\frac{3}{100}$
0.03	$\frac{300}{10}$

8. Choose Yes or No to tell if the comparison is correct.

8a. $4.77 < 4.47$ ○ Yes ○ No

8b. $3.58 > 3.85$ ○ Yes ○ No

8c. $11.12 < 111.2$ ○ Yes ○ No

8d. $63.9 > 59.6$ ○ Yes ○ No

9. Write the decimal that best describes point *Q* on the number line.

10. Explain how to find the sum of $\frac{9}{100} + \frac{7}{10}$.

11. Use the table below.

Route A	4.85 km
Route B	5.15 km
Route C	5.10 km
Route D	4.95 km

Create a number line and plot the length of each route.

12. Nina used 100 beads to make 2 bracelets. 50 of the beads were red. She wrote down that 0.05 of the beads were red. Did Nina write the decimal correctly? Explain.

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Name _____ Date _____

Place Value

Number and Operations

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
6,	7	8	9,	5	3	2

What place is the 6 in?

1. 456 _____

2. 6,545,000 _____

3. 5,634,000 _____

4. 546,345 _____

5. 634,998 _____

6. 4,536 _____

7. 3,654 _____

8. 4,365,777 _____

9. 4,361 _____

10. 6,423 _____

11. 60 _____

12. 464,999 _____

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Name _____ Adding whole numbers

Totally Cool

Find the sums.

A.	2,345 + 3,872 6,217	4,614 + 3,747	2,937 + 1,758	5,807 + 956
B.	6,821 + 59	2,436 + 3,827	2,385 + 3,561	5,661 + 3,359
C.	1,986 + 5,923	2,931 + 3,142	4,385 + 3,579	5,188 + 1,996
D.	352 + 7,863	2,481 + 6,879	3,105 + 4,896	4,385 + 2,961
E.	$ 35.19 + 26.85	$ 68.75 + 9.97	$ 43.50 + 29.79	$ 38.46 + 17.38
F.	3,125 936 + 1,215	5,687 47 + 863	$ 23.95 8.97 + 15.60	

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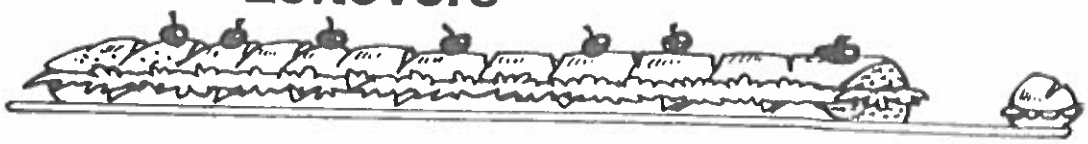
Name _____ Subtracting whole numbers

Leftovers



Write the differences.

A.	5,237 − 1,856 3,381	6,895 − 2,167	1,596 − 898	6,735 − 1,948
B.	4,327 − 1,175	7,280 − 5,461	1,244 − 922	3,850 − 3,760
C.	5,556 − 2,658	4,392 − 1,774	6,432 − 265	5,324 − 1,427
D.	6,442 − 2,795	6,314 − 5,719	8,735 − 5,787	4,744 − 3,658
E.	$ 42.38 − 9.39	$ 17.71 − 2.88	$ 92.63 − 65.94	$ 15.35 − 13.69
F.	$ 62.08 − 38.52	$ 68.25 − 4.09	$ 72.56 − 61.84	$ 24.82 − 18.65

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Skill: Multiplying by One-Digit Numbers

Multiplication

Name _____

Total Problems	30
Problems Correct	

1. 6,140 × 5	**2.** 5,389 × 2			
3. 6,528 × 8	**4.** 9,476 × 3	**5.** 4,326 × 7	**6.** 7,342 × 4	**7.** 9,465 × 6
8. 3,186 × 9	**9.** 8,547 × 5	**10.** 2,894 × 3	**11.** 2,315 × 8	**12.** 9,478 × 2
13. 3,272 × 6	**14.** 8,675 × 4	**15.** 4,639 × 8	**16.** 9,576 × 3	**17.** 8,964 × 5
18. 9,210 × 7	**19.** 3,948 × 6	**20.** 8,674 × 2	**21.** 5,782 × 4	**22.** 3,546 × 9
23. 3,765 × 8	**24.** 4,268 × 3	**25.** 7,286 × 5	**26.** 8,547 × 6	**27.** 8,795 × 4
28. 6,249 × 5	**29.** 3,742 × 9	**30.** 6,924 × 7		

Practice puts you on top!

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Multiplication

Name ___

Show your work on another sheet.
Write your answers here.

1. 45 × 23

2. 53 × 17

3. 25 × 47

4. 48 × 34

5. 54 × 23

6. 32 × 51

7. 35 × 63

8. 44 × 29

9. 58 × 37

10. 39 × 14

11. 62 × 46

12. 36 × 52

13. 57 × 32

14. 49 × 27

15. 24 × 68

16. 37 × 43

17. 71 × 54

18. 35 × 42

19. 56 × 23

20. 39 × 32

21. 23 × 64

22. 43 × 35

23. 37 × 19

24. 42 × 37

25. 35 × 46

26. 53 × 26

27. 31 × 68

28. 36 × 48

29. 59 × 27

30. 28 × 56

Practice! Practice! Practice!

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Division

Name _____

Show your work on another sheet.
Write your answers here.

Total Problems	27
Problems Correct	

1. $3\overline{)746}$

2. $7\overline{)796}$

3. $5\overline{)893}$

4. $4\overline{)943}$

5. $6\overline{)676}$

6. $8\overline{)978}$

7. $2\overline{)337}$

8. $7\overline{)957}$

9. $3\overline{)446}$

10. $4\overline{)538}$

11. $6\overline{)759}$

12. $5\overline{)684}$

13. $8\overline{)894}$

14. $2\overline{)487}$

15. $3\overline{)953}$

16. $6\overline{)945}$

17. $4\overline{)629}$

18. $7\overline{)879}$

19. $5\overline{)947}$

20. $2\overline{)951}$

21. $4\overline{)739}$

22. $3\overline{)647}$

23. $6\overline{)857}$

24. $2\overline{)859}$

25. $4\overline{)938}$

26. $3\overline{)773}$

27. $5\overline{)817}$

Practice = Success!

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Mixed Numerals

Name _____

Total Problems	25
Problems Correct	

1. $9\frac{4}{6} - 3\frac{2}{6}$

2. $14\frac{5}{9} - 6\frac{2}{9}$

3. $7\frac{8}{10} - 3\frac{4}{10}$

4. $13\frac{2}{7} - 8\frac{1}{7}$

5. $10\frac{6}{8} - 4\frac{2}{8}$

6. $11\frac{7}{12} - 5\frac{3}{12}$

7. $8\frac{3}{4} - 6\frac{1}{4}$

8. $12\frac{5}{8} - 7\frac{3}{8}$

9. $8\frac{3}{5} - 4\frac{1}{5}$

10. $9\frac{5}{6} - 7\frac{4}{6}$

11. $17\frac{8}{9} - 9\frac{3}{9}$

12. $8\frac{7}{10} - 5\frac{3}{10}$

13. $12\frac{6}{7} - 9\frac{4}{7}$

14. $11\frac{4}{5} - 3\frac{2}{5}$

15. $10\frac{7}{9} - 6\frac{4}{9}$

16. $16\frac{7}{8} - 7\frac{4}{8}$

17. $13\frac{9}{10} - 7\frac{4}{10}$

18. $11\frac{10}{12} - 8\frac{4}{12}$

19. $12\frac{6}{6} - 5\frac{2}{6}$

20. $18\frac{6}{7} - 9\frac{1}{7}$

21. $15\frac{10}{10} - 8\frac{6}{10}$

22. $7\frac{11}{12} - 4\frac{9}{12}$

23. $9\frac{4}{6} - 2\frac{3}{6}$

24. $6\frac{4}{7} - 2\frac{1}{7}$

25. $8\frac{5}{5} - 3\frac{1}{5}$

Practice makes perfect!

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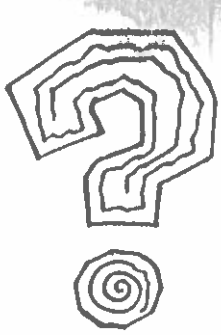
Name _____ Adding fractions

Mysterious Mix



To add fractions with like denominators, add the numerators. Write each sum in simplest form. Shade the matching section on the design below.

A. $\frac{5}{9} + \frac{2}{9} =$ _____ $\frac{3}{8} + \frac{4}{8} =$ _____

B. $\frac{1}{8} + \frac{4}{8} =$ _____ $\frac{1}{10} + \frac{6}{10} =$ _____ $\frac{3}{5} + \frac{1}{5} =$ _____

C. $\frac{1}{7} + \frac{3}{7} =$ _____ $\frac{3}{12} + \frac{7}{12} =$ _____ $\frac{1}{4} + \frac{2}{4} =$ _____

D. $\frac{4}{9} + \frac{2}{9} =$ _____ $\frac{1}{12} + \frac{5}{12} =$ _____ $\frac{2}{8} + \frac{1}{8} =$ _____

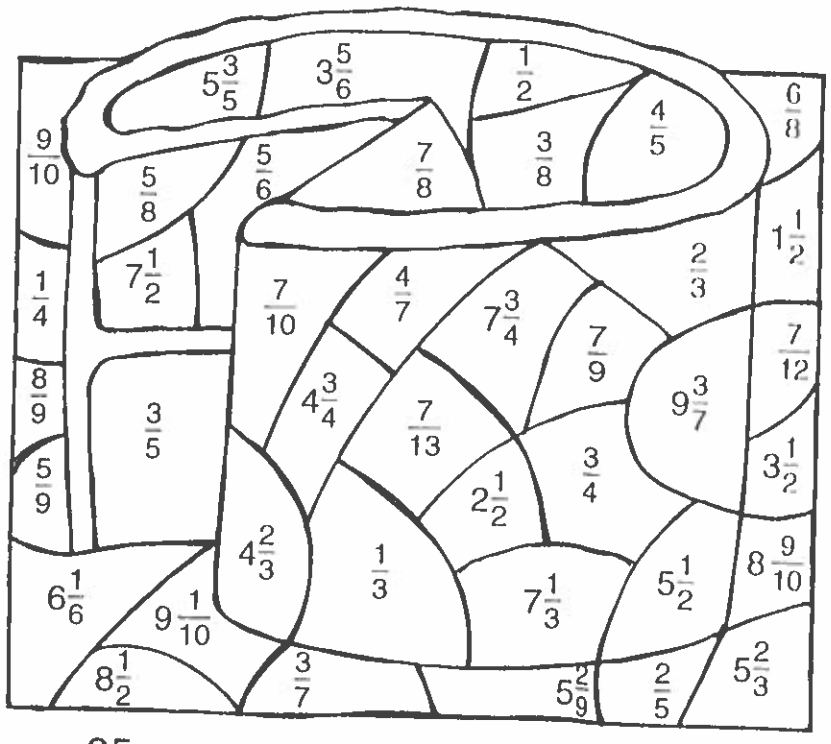
E. $\frac{2}{5} + \frac{1}{5} =$ _____ $\frac{3}{13} + \frac{4}{13} =$ _____ $\frac{4}{15} + \frac{1}{15} =$ _____

F. $3\frac{1}{3} + 1\frac{1}{3}$ $2\frac{2}{5} + 3\frac{1}{5}$ $5\frac{3}{4} + 2$ $8\frac{1}{7} + 1\frac{2}{7}$

G. $6\frac{3}{8} + 1\frac{1}{8}$ $4\frac{2}{9} + 3\frac{1}{9}$

H. $2\frac{3}{10} + 3\frac{2}{10}$ $1\frac{3}{6} + 2\frac{2}{6}$

I. $3\frac{4}{12} + 1\frac{5}{12}$ $2\frac{3}{10} + \frac{2}{10}$



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Name _____ Relating fractions and decimal

Changing Forms

Write a decimal for each fraction.

A. $\frac{2}{4}$ = 0.5 $\frac{1}{5}$ = _____ $\frac{3}{10}$ = _____

B. $\frac{4}{5}$ = _____ $\frac{6}{10}$ = _____ $\frac{6}{25}$ = _____

C. $\frac{12}{50}$ = _____ $\frac{8}{10}$ = _____ $\frac{4}{20}$ = _____

D. $\frac{67}{100}$ = _____ $\frac{13}{50}$ = _____ $\frac{3}{4}$ = _____

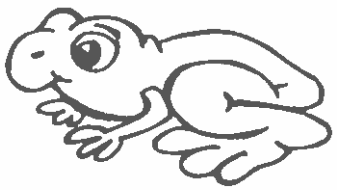
Write a fraction in simplest form for each decimal.

E. 0.5 = _____ 0.23 = _____ 0.4 = _____

F. 0.8 = _____ 0.25 = _____

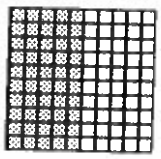
G. 0.2 = _____ 0.88 = _____

H. 0.75 = _____ 0.28 = _____



Write a fraction and a decimal for each picture.

I.



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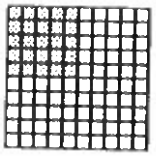

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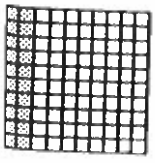

_____

_____

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Part Partners

Write a decimal for each fraction.

A. $\frac{1}{2}$ = 0.5 $\frac{3}{4}$ = _____

B. $\frac{5}{10}$ = _____ $\frac{15}{25}$ = _____ $\frac{6}{20}$ = _____

C. $\frac{2}{5}$ = _____ $\frac{12}{20}$ = _____ $\frac{1}{10}$ = _____

D. $\frac{2}{25}$ = _____ $\frac{13}{20}$ = _____ $\frac{4}{5}$ = _____

E. $\frac{9}{10}$ = _____ $\frac{47}{100}$ = _____ $\frac{9}{50}$ = _____

Write a fraction in simplest form for each decimal.

F. 0.6 = $\frac{6}{10} = \frac{3}{5}$ 0.24 = _____ 0.43 = _____

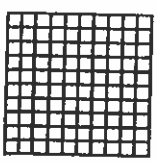
G. 0.4 = _____ 0.75 = _____ 0.50 = _____

H. 0.65 = _____ 0.30 = _____ 0.33 = _____

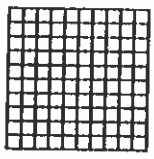
I. 0.9 = _____ 0.16 = _____ 0.25 = _____

Shade the diagrams to show the fractional or decimal parts.

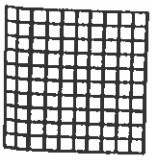
J. 0.15



K. $\frac{1}{2}$



L. $\frac{2}{5}$



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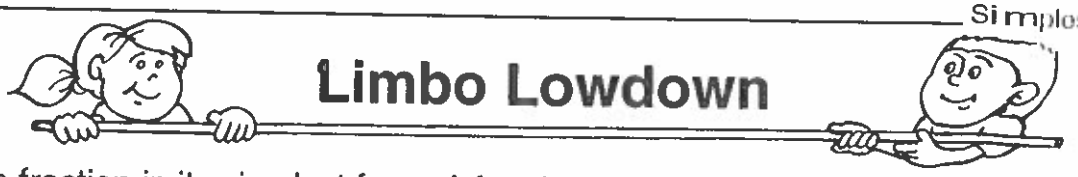
Name _____ Simplest form fractions



Limbo Lowdown

Write each fraction in its simplest form. A fraction is in its simplest form when the only number that will divide both the numerator and the denominator is 1 .

A. $\frac{3}{12} = \frac{\vdots}{\vdots}$ $\frac{6}{18} =$ ____ $\frac{9}{27} =$ ____

B. $\frac{4}{6} =$ ____ $\frac{8}{10} =$ ____ $\frac{12}{14} =$ ____ $\frac{2}{8} =$ ____

C. $\frac{18}{27} =$ ____ $\frac{18}{24} =$ ____ $\frac{16}{30} =$ ____ $\frac{9}{21} =$ ____

D. $\frac{21}{28} =$ ____ $\frac{27}{63} =$ ____ $\frac{15}{25} =$ ____ $\frac{18}{20} =$ ____

Shade each box that contains a fraction in its simplest form.

E.

$\frac{18}{20}$	$\frac{4}{6}$	$\frac{6}{18}$	$\frac{5}{8}$	$\frac{2}{3}$	$\frac{5}{15}$	$\frac{3}{9}$	$\frac{11}{12}$	$\frac{7}{9}$	$\frac{14}{18}$	$\frac{18}{22}$	$\frac{9}{36}$
$\frac{5}{9}$	$\frac{10}{40}$	$\frac{6}{12}$	$\frac{4}{5}$	$\frac{7}{10}$	$\frac{4}{12}$	$\frac{21}{28}$	$\frac{22}{25}$	$\frac{5}{12}$	$\frac{3}{6}$	$\frac{16}{24}$	$\frac{9}{16}$
$\frac{10}{12}$	$\frac{3}{8}$	$\frac{45}{50}$	$\frac{10}{15}$	$\frac{9}{15}$	$\frac{8}{12}$	$\frac{7}{14}$	$\frac{20}{30}$	$\frac{30}{36}$	$\frac{8}{16}$	$\frac{8}{13}$	$\frac{4}{8}$
$\frac{14}{16}$	$\frac{25}{30}$	$\frac{4}{7}$	$\frac{7}{8}$	$\frac{18}{27}$	$\frac{10}{20}$	$\frac{6}{10}$	$\frac{20}{40}$	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{4}{12}$	$\frac{28}{30}$
$\frac{27}{30}$	$\frac{16}{18}$	$\frac{5}{15}$	$\frac{21}{24}$	$\frac{9}{10}$	$\frac{2}{7}$	$\frac{9}{13}$	$\frac{8}{11}$	$\frac{18}{20}$	$\frac{3}{12}$	$\frac{15}{18}$	$\frac{6}{30}$

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Name _____

10.12 TAKE ANOTHER LOOK

Multiplying Fractions and Mixed Numbers

Multiply. $\frac{1}{2} \times 1\frac{3}{4} = n$

Step 1 Shade $1\frac{3}{4}$.

Step 2 Shade half of $1\frac{3}{4}$.

$\frac{7}{8}$ is shaded twice.

So, $\frac{1}{2} \times 1\frac{3}{4} = \frac{7}{8}$.

Find each product. You can draw fraction squares to help you.

1. $\frac{1}{4} \times 3\frac{1}{3} =$ _____

2. $\frac{1}{2} \times 2\frac{1}{2} =$ _____

3. $\frac{2}{3} \times 1\frac{2}{5} =$ _____

4. $\frac{3}{4} \times 1\frac{1}{3} =$ _____

5. $\frac{1}{2} \times 1\frac{3}{8} =$ _____

6. $\frac{1}{2} \times 1\frac{1}{4} =$ _____

7. $\frac{1}{4} \times 2\frac{1}{3} =$ _____

8. $\frac{1}{7} \times 2\frac{1}{2} =$ _____

9. $\frac{1}{3} \times 1\frac{1}{3} =$ _____

10. $\frac{1}{4} \times 1\frac{1}{2} =$ _____

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Name _____

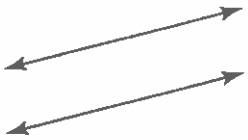
16-1

Points, Lines, and Planes

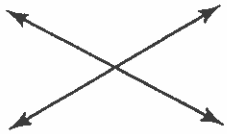
Here are some important geometric terms.

Point
A point is an exact location in space. This is point *X*.

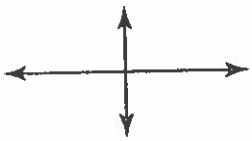
Line
A straight path of points that goes on and on in both directions. This is line *AB*.



Parallel lines
Never intersect.



Intersecting lines
Pass through the same point.



Perpendicular lines
Lines that form right angles.

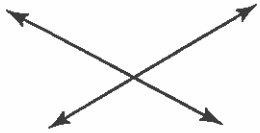
Use geometric terms to describe what is shown. Be as specific as possible.

1.

_____

_____

2.



_____

_____

3.

_____

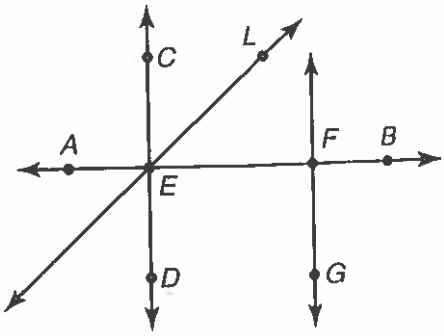
_____

4. Name three different lines.

_____

5. Name a set of parallel lines.

_____



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