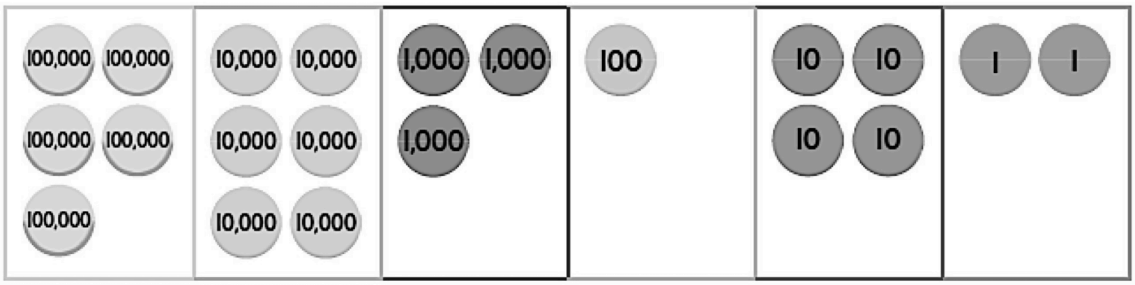
Name: _____ Date: _____

Placement Test for Primary Mathematics 5A

1. What number is shown? [1]



(A) 536,142

(B) 561,342

(C) 563,124

(D) 563,142

2. Write the numbers in standard form. [2]

(a) three hundred fifty-one thousand, two hundred nineteen

_____

(b) six hundred twenty-three thousand, eighty-five

_____

3. Write the numbers in word form. [2]

(a) 708,402

_____

(b) 890,006

_____

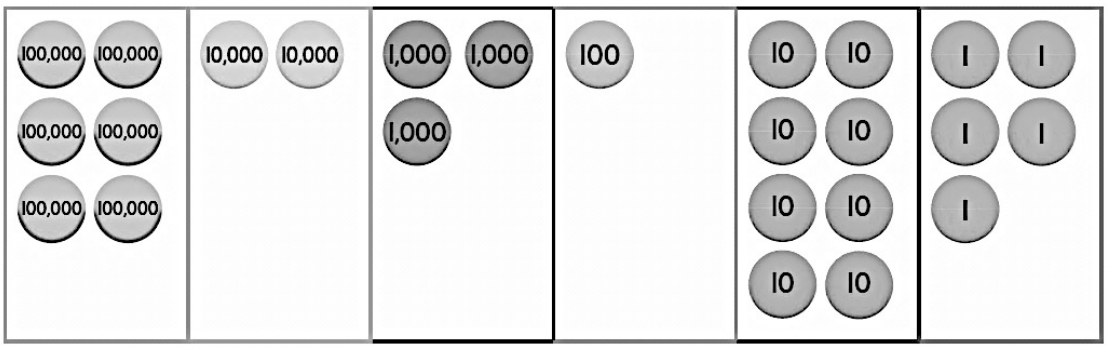
Name: _____ Date: _____

4. Write the numbers in expanded form. [2]

(a) 246,195 = _____ + _____ + _____ +
_____ + _____ + _____

(b) 307,689 = _____ + _____ + _____ +
_____ + _____

5. [6]



Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
6	2	3	1	8	5

In 623,185,

(a) the digit 6 is in the _____ place.

(b) the digit 2 has a value of _____.

(c) the value of the digit 3 is _____.

(d) the digit 1 is in the _____ place.

(e) the digit 8 has a value of _____.

(f) the value of the digit 5 is _____.

6. Fill in the blanks. [2]

(a) $12 \times 10 =$ _____

(b) $56 \times$ _____ $= 560$

7. Multiply. [4]

(a) $22 \times 4 =$ _____

$22 \times 40 =$ _____

(b) $32 \times 3 =$ _____

$32 \times 30 =$ _____

8. Which of the following are equal to $3 + 14 + 18$?

Choose two correct answers. [2]

(A) $3 + 1 + 4 + 1 + 8$ (B) $14 + 18 + 3$

(C) $18 + 3 + 14$ (D) $3 \times 14 \times 18$

9. Which of the following is equal to 12×15? [1]

(A) $15 + 12$ (B) 15×12

(C) $10 \times 2 \times 15$ (D) $15 \times 1 \times 2$

10. Multiply or divide. [4]

(a) $67 \times 40 =$ _____

(b) $32 \times 12 =$ _____

(c) $845 \div 4 =$ _____

(d) $1{,}235 \div 6 =$ _____

11. Which number is a common multiple of 3 and 6? [1]

(A) 3 (B) 9

(C) 12 (D) 15

12. Which two fractions are equivalent to $\frac{5}{8}$? [2]

(A) $\frac{12}{15}$ (B) $\frac{10}{13}$

(C) $\frac{10}{16}$ (D) $\frac{25}{40}$

13. Which two statements are true? [2]

(A) $\frac{7}{8}$ and $\frac{5}{8}$ are like fractions.

(B) $\frac{7}{8}$ and $\frac{5}{8}$ have like numerators.

(C) $3\frac{3}{4}$ is a mixed number.

(D) $\frac{2}{9}$ and $\frac{5}{9}$ have unlike denominators.

14. Fill in the blanks. [2]

(a) $\frac{2}{3} = \frac{\square}{9}$ (b) $\frac{4}{5} = \frac{\square}{25}$

15. Write the improper fractions as mixed numbers in simplest form. [2]

(a) $\frac{18}{7}$ = _____ (b) $\frac{32}{6}$ = _____

16. Write the mixed numbers as improper fractions. [2]

(a) $2\frac{5}{6}$ = _____ (b) $3\frac{4}{7}$ = _____

17. Add. Write the answers in simplest form. [4]

(a) $\frac{1}{5} + \frac{3}{5}$ (b) $\frac{7}{12} + \frac{11}{12}$

(c) $3\frac{2}{9}$
$+ 1\frac{1}{9}$

(d) $2\frac{13}{15}$
$+ 2\frac{8}{15}$

18. Subtract. Write the answers in simplest form. [4]

(a) $\frac{8}{9} - \frac{4}{9}$

(b) $3 - \frac{3}{10}$

(c) $3\frac{13}{14}$
$-\ 1\frac{9}{14}$

(d) $5\frac{4}{15}$
$-\ 3\frac{7}{15}$

19. For a recycling campaign, Katelyn used $1\frac{1}{8}$ meters of string to tie some old magazines. Aiden used $1\frac{3}{8}$ meters of string to tie some newspapers. How much string did they use in all? [3]

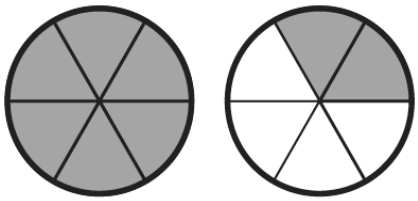
20. Which of these are equivalent fractions of $\frac{1}{3}$?

Choose the two correct answers. [1]

(A) $\frac{2}{6}$ (B) $\frac{4}{12}$

(C) $\frac{2}{4}$ (D) $\frac{3}{5}$

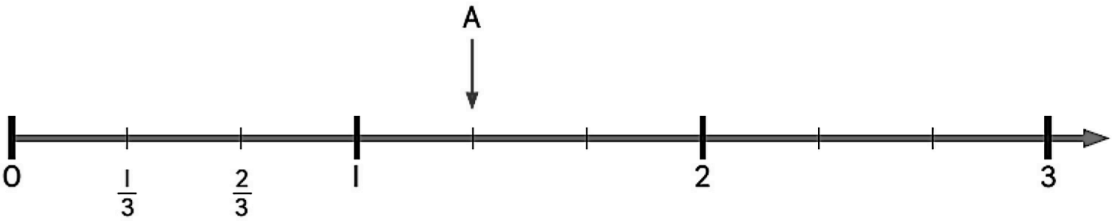
21. What fraction is represented by the fraction circles? [1]



(A) $\frac{12}{8}$ (B) $\frac{8}{6}$

(C) $\frac{8}{12}$ (D) $\frac{6}{12}$

22. What number does the letter A represent? [1]

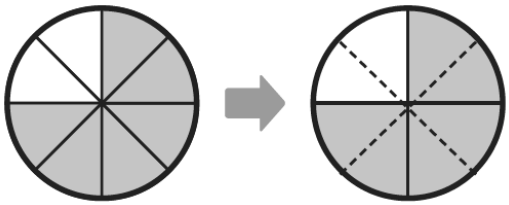


(A) $\frac{1}{3}$ (B) $1\frac{1}{4}$

(C) $1\frac{1}{3}$ (D) $1\frac{4}{3}$

23. Express the fractions in simplest form. [2]

(a)

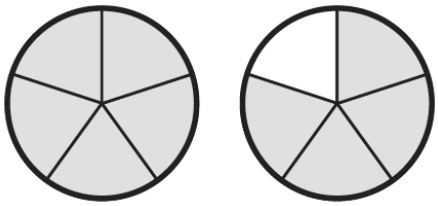


$\frac{6}{8}$ = _____

(b) $2\frac{6}{16}$ = _____

24. Express the mixed numbers as improper fractions. [2]

(a)

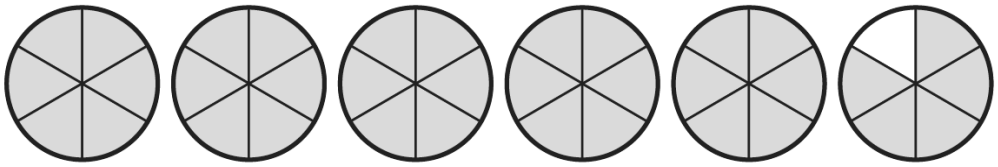


$1\frac{4}{5}$ = _____

(b) $2\frac{3}{7}$ = _____

25. Express the improper fractions as mixed numbers. [2]

(a)



$\frac{35}{6}$ = _____

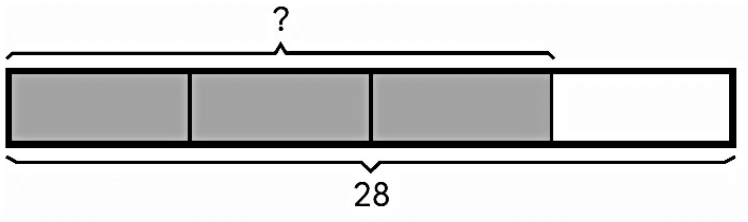
(b) $\frac{42}{5}$ = _____

26. Multiply. Express the products in simplest form. [2]

(a) $\frac{1}{4} \times 12$

(b) $\frac{3}{5} \times 20$

27. Alexander buys 28 apples. $\frac{3}{4}$ of the apples are red. How many apples are red? [1]



28. What is the sum of $\frac{3}{5}$ and $\frac{2}{3}$? [1]

(A) $\frac{5}{8}$

(B) $1\frac{4}{15}$

(C) $1\frac{3}{5}$

(D) $1\frac{5}{8}$

29. What is the difference between $4\frac{4}{9}$ and $1\frac{5}{6}$? [1]

(A) $1\frac{1}{3}$

(B) $2\frac{1}{3}$

(C) $2\frac{11}{18}$

(D) $3\frac{11}{18}$

30. What is the product of $\frac{6}{7}$ and $\frac{5}{9}$? [1]

(A) $\frac{10}{21}$

(B) $\frac{11}{21}$

(C) $\frac{11}{16}$

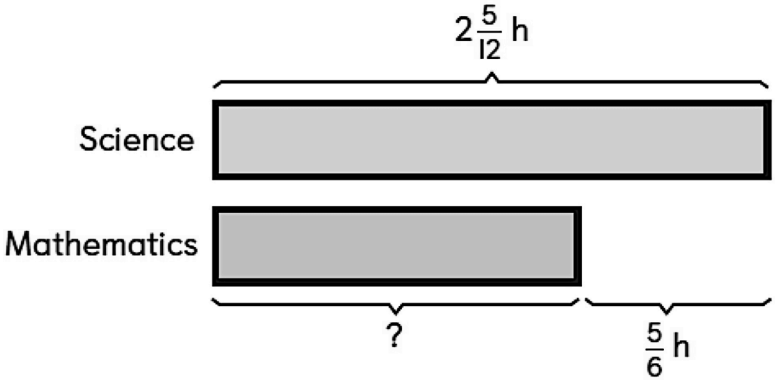
(D) $1\frac{1}{16}$

31. Divide. [2]

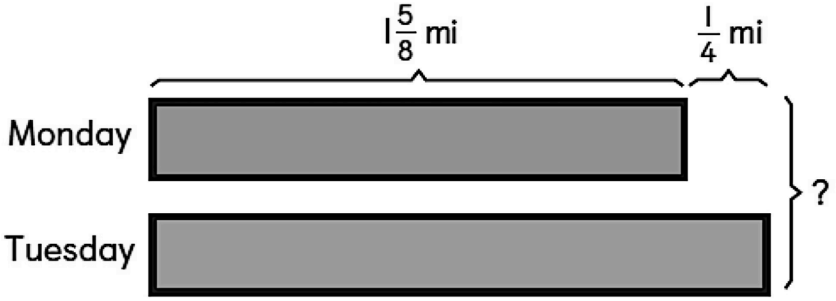
(a) $\frac{4}{9} \div 8$

(b) $4 \div \frac{1}{3}$

32. Audrey spent $2\frac{5}{12}$ hours on her Science project. She spent $\frac{5}{6}$ hour less on her Mathematics homework than the Science project. How much time did Audrey spend on her Mathematics homework? [1]

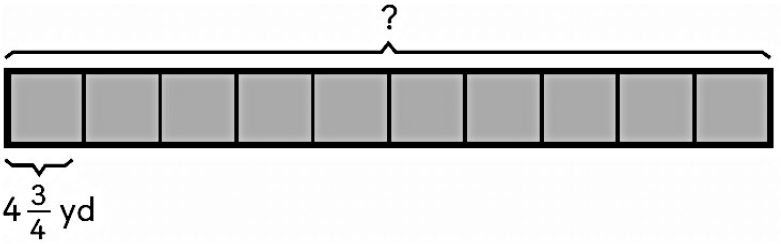


33. Emilio ran $1\frac{5}{8}$ miles on Monday. He ran $\frac{1}{4}$ mile more on Tuesday than on Monday. What was the total distance Emilio ran on Monday and Tuesday? [2]

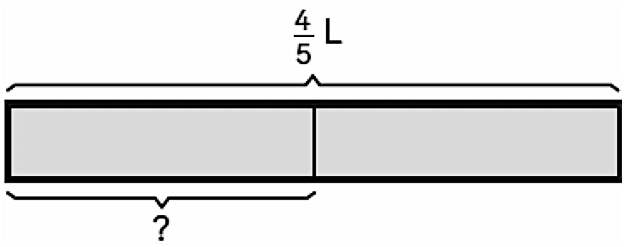


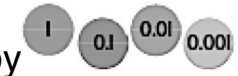
34. Ms. Lewis used $4\frac{3}{4}$ yards of cloth to make a pet blanket.

How many yards of cloth did she use to make 10 pet blankets? [2]

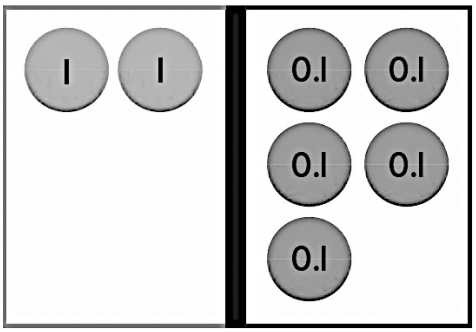


35. A water bottle has $\frac{4}{5}$ liter of water. The water is poured equally into 2 mugs. How much water is there in each mug? [2]



36. What is the decimal represented by 

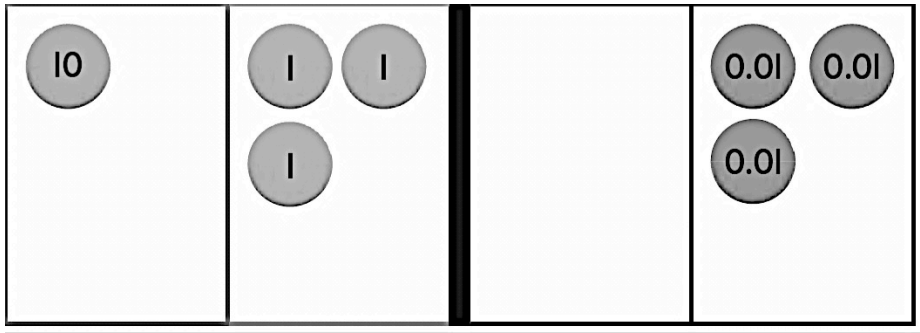
? [1]



(A) 1.5
(B) 2.05
(C) 2.5
(D) 20.5

37. What is the decimal represented by 

? [1]



(A) 13.3
(B) 13.03
(C) 10.33
(D) 10.3

38. In 48.67, [4]

(a) the value of the digit 4 is _____.

(b) the digit 8 is in the _____ place.

(c) the digit 6 is in the _____ place.

(d) the digit 7 stands for _____.

39. Fill in the blanks. [3]

(a) 4.8 = 4 + _____

(b) 13.57 = 10 + 3 + _____ + _____

(c) _____ = 20 + 3 + 0.8 + 0.04

40. Compare the decimals. Write **<**, **>**, or **=**. [4]

(a) 3.9 ◯ 8.1

(b) 12.80 ◯ 12.8

(c) 2.7 ◯ 2.68

(d) 14.13 ◯ 14.19

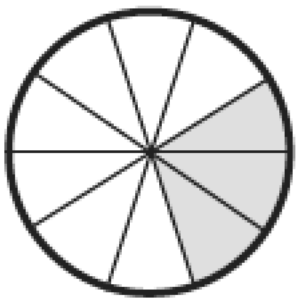
41. Order 14.6, 14.44, and 14.8 from least to greatest. [2]

_____, _____, _____

least greatest

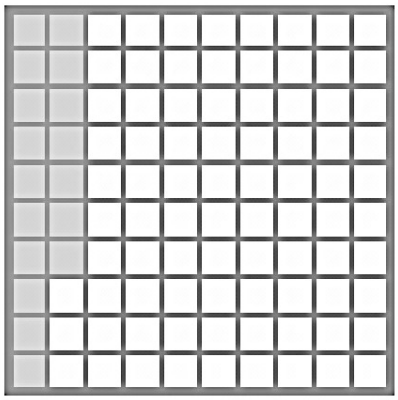
42. Write the numbers in decimal form. [2]

(a)



_____

(b)



_____

43. Write the decimals as fractions in simplest form. [4]

(a) 0.5

(b) 11.6

(c) 3.28

(d) 27.14

44. Write the fractions as decimals. [4]

(a) $\frac{7}{10}$

(b) $\frac{19}{100}$

(c) $\frac{1}{5}$

(d) $\frac{16}{25}$

Answer Key

1. D
2. (a) 351,219
   (b) 623,085
3. (a) seven hundred eight thousand, four hundred two
   (b) eight hundred ninety thousand six
4. (a) 200,000, 40,000, 6,000, 100, 90, 5
   (b) 300,000, 7,000, 600, 80, 9
5. (a) hundred thousands
   (b) 20,000
   (c) 3,000
   (d) hundreds
   (e) 80
   (f) 5
6. (a) 120 (b) 10
7. (a) 88, 880
   (b) 96, 960
8. B and C
9. B
10. (a) 2,680
    (b) 384
    (c) 211 R1
    (d) 205 R5
11. C
12. C and D
13. A and C
14. (a) 6 (b) 20
15. (a) $2\frac{4}{7}$ (b) $5\frac{1}{3}$
16. (a) $\frac{17}{6}$ (b) $\frac{25}{7}$

17. (a) $\frac{4}{5}$

(b) $\frac{18}{12}$

$= \frac{3}{2}$

$= 1\frac{1}{2}$

(c) $4\frac{3}{9}$

$= 4\frac{1}{3}$

(d) $4\frac{21}{25}$

$= 5\frac{6}{15}$

$= 5\frac{2}{5}$

18. (a) $\frac{4}{9}$

(b) $2\frac{10}{10} - \frac{3}{10}$

$= 2\frac{7}{10}$

(c) $2\frac{4}{14}$

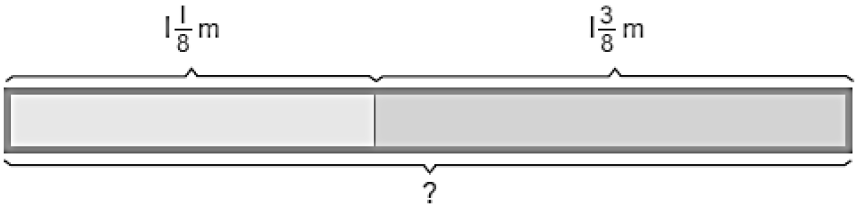
$= 2\frac{2}{7}$

(d)

$$\begin{array}{r} 4\frac{19}{15} \\ \cancel{5}\,\cancel{4}\,\frac{}{15} \\ -\ 3\frac{7}{15} \\ \hline 1\frac{12}{15} \end{array}$$

$= 1\frac{4}{5}$

19.



$1\frac{1}{8} + 1\frac{3}{8} = 2\frac{4}{8}$

$= 2\frac{1}{2}$

They used $2\frac{1}{2}$ meters of string in all.

20. A and B

21. B

22. C

23. (a) $\frac{3}{4}$ (b) $2\frac{3}{8}$

24. (a) $\frac{9}{5}$ (b) $\frac{17}{7}$

25. (a) $5\frac{5}{6}$ (b) $8\frac{2}{5}$

26. (a) $\frac{12}{4}$

$= 3$

(b) $\frac{60}{5}$

$= 12$

27. $\frac{3}{4} \times 28 = 21$

21 apples are red.

28. B

29. C

30. A

31. (a) $\frac{4}{9} \times \frac{1}{8}$

$= \frac{1}{18}$

(b) 4×3

$= 12$

32. $2\frac{5}{12} - \frac{5}{6} = 1\frac{7}{12}$

Audrey spent $1\frac{7}{12}$ hours on her Mathematics homework.

33. $1\frac{5}{8} + \frac{1}{4} = 1\frac{7}{8}$

Emilio ran $1\frac{7}{8}$ miles on Tuesday.

$1\frac{5}{8} + 1\frac{7}{8} = 3\frac{1}{2}$

The total distance Emilio ran was $3\frac{1}{2}$ miles.

34. $4\frac{3}{4} \times 10 = 4 \times 10 + \frac{3}{4} \times 10$

$= 40 + \frac{15}{2}$

$= 47\frac{1}{2}$

Ms. Lewis used $47\frac{1}{2}$ yards of cloth to make 10 pet blankets.

35. $\frac{4}{5} \div 2 = \frac{4}{5} \times \frac{1}{2}$

$= \frac{2}{5}$

There is $\frac{2}{5}$ liter of water in each mug.

36. C

37. B

38. (a) 40

(b) ones

(c) tenths

(d) 0.07

39. (a) 0.8 (b) 0.5, 0.07 (c) 23.84

40. (a) < (b) =

(c) > (d) <

41. 14.44, 14.6, 14.8

42. (a) 0.3 (b) 0.17

43. (a) $\frac{5}{10}$

$= \frac{1}{2}$

(b) $11\frac{6}{10}$

$= 11\frac{3}{5}$

(c) $3\frac{28}{100}$

$= 3\frac{7}{25}$

(d) $27\frac{14}{100}$

$= 27\frac{7}{50}$

44. (a) 0.7

(b) 0.19

(c) $\frac{2}{10}$

= 0.2

(d) $\frac{64}{100}$

= 0.64