Mathematics

1 The diagram shows angle *ACB*.
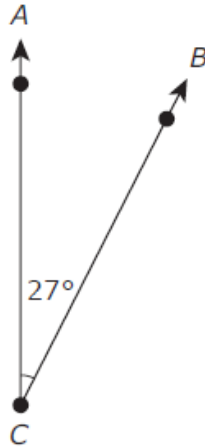
Which statement is true about angle *ACB*?

A The number of 1° angles that angle *ACB* turns through is twenty-seven.

B The number of 7° angles that angle *ACB* turns through is twenty.

C The number of 20° angles that angle *ACB* turns through is seven.

D The number of 90° angles that angle *ACB* turns through is twenty-seven.

2 What is the value of $\frac{3}{10} + \frac{8}{100}$?

Select one answer.

A $\frac{11}{110}$

B $\frac{11}{100}$

C $\frac{38}{110}$

D $\frac{38}{100}$

3 Which **two** comparisons are true?

Select the **two** correct answers.

A $999,999 < 1,000,000$

B $253,800 > 443,166$

C $42,709 = 42,907$

D $24,604 < 24,218$

E $11,386 > 11,368$

4 What is the value of $4\frac{1}{4} - 1\frac{3}{4}$?

A $3\frac{3}{4}$

B $3\frac{2}{4}$

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

D $2\frac{2}{4}$

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5 Which two problems are solved using 30 × 40?

Select the **two** correct answers.

A One box has 30 pencils. Another box has 40 pencils. How many pencils are in the boxes in all?

B There are 30 slides in a small playground. There are 40 slides in a large playground. How many slides are in the small and large playgrounds?

C A classroom has 30 books. The number of pages in the books is 40 times as many as the number of books. How many pages are in the books?

D One elementary school has 30 teachers. There are 40 more teachers at a middle school than the elementary school. How many teachers are at the middle school?

E There are 30 clerks at a store. The number of hours the clerks worked this week is 40 times as many as the number of clerks. How many hours did the clerks work this week?

6 Each model shown represents one whole and each model is shaded into equal parts.
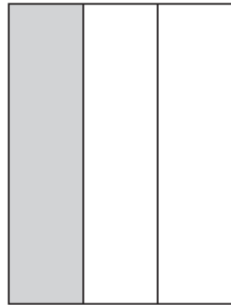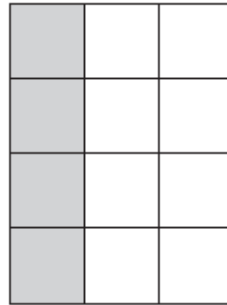
Model 1   Model 2

Which expression represents the equivalent fractions shown by the shaded parts in the models?

A $\dfrac{1}{3} = \dfrac{1+3}{3+3}$

B $\dfrac{1}{3} = \dfrac{1 \times 4}{3 \times 4}$
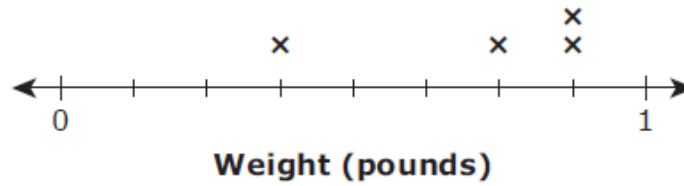
C $\dfrac{1}{2} = \dfrac{1+3}{2+3}$

D $\dfrac{1}{2} = \dfrac{1 \times 4}{2 \times 4}$

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7 This line plot shows the weights, in pounds, of different objects in a student's backpack.

Weight (pounds)

What is the difference, in pounds, between the greatest weight and the least weight?

A $\dfrac{3}{8}$

B $\dfrac{4}{8}$

C $\dfrac{5}{8}$

D $\dfrac{6}{8}$

8 Each of these models is divided into equal parts.

Model A: [| | | |] = 1 whole

Model B: [| | | | |] = 1 whole

Model C: [| | | | | |] = 1 whole

A baker will make 3 pies. The baker needs $\frac{1}{4}$ teaspoon of salt for each pie. The baker will shade parts in one of the models to represent the fraction of a teaspoon of salt needed for 3 pies.

How many parts should be shaded in which model?

A 3 parts in Model A should be shaded.

B 3 parts in Model C should be shaded.

C 4 parts in Model B should be shaded.

D 4 parts in Model C should be shaded.

9 In the following number pattern, the first term is 3.

3, 10, 17, ____

Use the rule "Add 7" to find the fourth term in the pattern.

Enter your answer in the space provided.

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10 Which equation is true?

Select one answer.

A $\dfrac{6}{12} = \dfrac{4}{8}$

B $\dfrac{4}{5} = \dfrac{9}{10}$

C $\dfrac{1}{2} = \dfrac{1}{100}$

D $\dfrac{3}{6} = \dfrac{2}{6}$

11 What is the value of the expression?

$5217 - 3146$

Enter your answer in the space provided.

Answers

Section 3

Item Number	Answer Key
1.	A
2.	D
3.	A, E
4.	D
5.	C, E
6.	B
7.	B
8.	A
9.	24
10.	A
11.	2071