Sample Documents

Pre-algebra
(PRE)

EducAide Software

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Part A.  Simplify.

1.  \(308 - 29\)  
2.  \(3008 - 499\)  
3.  \(34 \times 21\)  
4.  \(2,174 \times 51\)  
5.  \((-73) + (-91) + (-94)\)  
6.  \((-8) + 17 + (-12)\)  
7.  \((-\frac{7}{12}) \div (-\frac{3}{2})\)  
8.  \((-\frac{12}{11}) \div (\frac{12}{9})\)  

Part B.  (No explicit directions.)

1. Vicki knows there are 572 cases of juice in the warehouse. Each case contains 24 cans of juice. Each can is 8 ounces. Estimate the total amount of juice in the warehouse.

2. Last week, Dayna’s car got 33 miles per gallon. This week, she drove 217 miles, and used 8 gallons of gasoline. Did her car get about the same mileage this week?

Part C.  Refer to the number line to answer the questions.

![Number Line]

1. What number corresponds to point \(E\)?  
2. Find the distance between \(E\) and \(D\).

Part D.  Write the standard form of each number.

1. thirty-two thousand five hundred seventy  
2. two hundred sixty-three and nine hundredths
### Answer List

<table>
<thead>
<tr>
<th>A-1.</th>
<th>279</th>
<th>A-2.</th>
<th>2509</th>
<th>A-3.</th>
<th>714</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-4.</td>
<td>110,874</td>
<td>A-5.</td>
<td>−258</td>
<td>A-6.</td>
<td>−3</td>
</tr>
<tr>
<td>A-7.</td>
<td>$\frac{7}{32}$</td>
<td>A-8.</td>
<td>$\frac{5}{11}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-2.</td>
<td>no (≈ 27.1)</td>
<td>C-1.</td>
<td>−4</td>
<td>C-2.</td>
<td>7</td>
</tr>
<tr>
<td>D-1.</td>
<td>32,570</td>
<td>D-2.</td>
<td>263.09</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Catalog List

<table>
<thead>
<tr>
<th>A-1.</th>
<th>PRE AB 207</th>
<th>A-2.</th>
<th>PRE AB 247</th>
<th>A-3.</th>
<th>PRE AC 131</th>
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</thead>
<tbody>
<tr>
<td>A-4.</td>
<td>PRE AC 169</td>
<td>A-5.</td>
<td>PRE DI 48</td>
<td>A-6.</td>
<td>PRE DI 105</td>
</tr>
<tr>
<td>B-2.</td>
<td>PRE EF 18</td>
<td>C-1.</td>
<td>PRE DA 5</td>
<td>C-2.</td>
<td>PRE DA 20</td>
</tr>
<tr>
<td>D-1.</td>
<td>PRE CA 16</td>
<td>D-2.</td>
<td>PRE CA 52</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Solve.

1) \(51 + y = 34\)

2) \(x \div (-10) = 3\)

3) \(-x^2 = -\frac{36}{100}\)

4) \(7 = 5n - (-27)\)

5) \(n + 7 > -5\)

6) \(a \div \frac{3}{5} < -27\)

Write the equation of the graph.

7) \([-2, -1, 0, 1, 2]\)

8) \([-4, -3, -2, -1, 0]\)

Show all work for full credit.

9) The sum of 2 numbers is 34. One number is 10 more than the other number. Find the two numbers.

10) Paul has twice as many dimes as quarters. He has a total of $1.35. How many dimes and quarters does Paul have?

11) Carmen is buying a new car, and wishes to spend no more than \(\frac{2}{5}\) of his yearly salary on the car. The car he wants costs $11,500. What is the minimum yearly salary he must make in order to buy this car?
### Answer List

1. $-17$ 
2. $-30$ 
3. $\frac{6}{11}$ 
4. $-4$ 
5. $n > -12$ 
6. $a < -45$ 
7. $x \neq 1.5$ 
8. $x \geq -\frac{7}{2}$ 
9. 12, 22 
10. 6-dimes, 3-quarters 
11. $28,750$

### Catalog List

1. PRE LB 60 
2. PRE LC 120 
3. PRE LD 44 
4. PRE LE 176 
5. PRE LH 115 
6. PRE LI 102 
7. PRE LG 7 
8. PRE LG 28 
9. PRE LK 22 
10. PRE LK 58 
11. PRE LK 92
Refer to the diagram to answer the questions.

1. Point \(A\) is between which 2 points?

2. Name the vertex of \(\angle IED\).

3. Name \(\angle BCA\) in another way.

Refer to the diagram to answer the questions.

4. Name all pairs of parallel lines.

5. Name two pairs of alternate exterior angles.

6. Name two right angles which are not adjacent or vertical.

Classify the polygons.

7. 

8. In circle \(F\), find the length of \(FG\).

9. Find the area of \(\triangle GIH\).

10. Find the perimeter of \(\triangle GIH\).

State the types of symmetry in each figure.

11. 

12. 
### Answer List

1. $D$ and $B$ or $E$ and $C$
2. $E$
3. $\angle FCI$
4. $\ell, m$
5. 
6. 
7. octagon
8. 3
9. 9
10. about 14.5
11. line
12. line, reflectional, point, rotational

### Catalog List

1. PRE NA 2
2. PRE NA 45
3. PRE NA 52
4. PRE NE 14
5. PRE NE 20
6. PRE NE 21
7. PRE NI 11
8. PRE NJ 39
9. PRE NJ 47
10. PRE NJ 50
11. PRE NL 19
12. PRE NL 12