IEC Apprentice Assessment Test

Perform the following operations:

1). $4.2 + 4.02 = $ 11). $0.21 \times 5 = $
2). $5.03 + 1.2 = $ 12). $1.36 \times 0.2 = $
3). $255 \times 300 = $ 13). $\frac{3}{8} \times \frac{1}{5} = $
4). $72 \times 21 = $ 14). $\frac{1}{3} \times \frac{3}{4} = $
5). $414 \div 18 = $ 15). $\frac{1}{4} \div \frac{4}{3} = $
6). $25350 \div 5 = $ 16). $3/2 \div 2/5 = $
7). $2 \frac{3}{5} + 4 \frac{1}{5} = $ 17). $-125 \div -5 = $
8). $2 \frac{1}{4} + 2 \frac{9}{16} = $ 18). $-36 \div -6 = $
9). $10 \frac{7}{5} - 2 \frac{3}{5} = $ 19). $18 \div -3 = $
10). $15 \frac{7}{8} - 4 \frac{1}{2} = $ 20). $-2 \times -6 = $
21). $-3 \times 6 = $ 25). $5 + (-8) = $
22). $-7 - 8 + 2 = $ 26). $50\% \text{ of what number is } 36?$
23). $3 - (-12) = $ 27). $60\% \text{ of what number is } 30?$
24). $4 - 8 = $ 28). $\frac{3}{4} \div 20 = $
Write the following expressions:

29). 4 times y

30). 5 divided by n

31). Three more than a number equals 10

32). The sum of x and 3

33). Four more than x

34). Seven less than x

35). Twice a

36). y decreased by 10

37). Classify the triangles in the following figures (based on the relationships of their sides).

a.)  

b.)  

c.)  

38). Find the number of degrees in the missing angle.

\[
\begin{align*}
50^\circ & \\
90^\circ & \\
? &
\end{align*}
\]
39). Find the area of each of the following figures.

a. \[
\begin{array}{c}
13 \\
20 
\end{array}
\]

b. \[
\begin{array}{c}
4 \\
9 
\end{array}
\]

40). Find the area of the shaded part.

41). If 78 is increased by 40%, find the new amount.

42). A 5% sales tax is levied on an order of building supplies costing $127.32. What is the amount of sales tax to be paid? What is the total bill?

a.)

b.)

43). A wet casting weighing 145 kg has a 2% weight loss in the drying process. How much will the dried casting weigh?

44). When ordering sand a 5% waste is added to the order. How much sand should be ordered if 450 yd of sand are needed?

45). Name the following figures.

a. \[
\begin{array}{c}
13 \\
20 
\end{array}
\]

b. \[
\begin{array}{c}
30 \\
20 \\
10 
\end{array}
\]

c. \[
\begin{array}{c}
4 \\
9 
\end{array}
\]
46). Gary brought a pair of slacks at a 30% discount sale for $33.60. What was the original price of the slacks?

Use the figure below to answer questions 47 to 50.

47). In what year(s) did women use more sick days than men?

48). In what year(s) did men use five sick days?

49). In what year(s) did men use more sick days than women?

50). What was the greatest number of sick days for men?
### Answers to Practice Review Testing

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<tr>
<td>1.</td>
<td>8.22</td>
<td>27.</td>
<td>50</td>
<td>28.</td>
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<td>2.</td>
<td>6.23</td>
<td>29.</td>
<td>4y</td>
<td>30.</td>
<td>5/n</td>
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<td>3.</td>
<td>76500</td>
<td>31.</td>
<td>n + 3 = 10</td>
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<td>4.</td>
<td>1512</td>
<td>33.</td>
<td>x + 4</td>
<td>34.</td>
<td>x – 7</td>
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<td>5.</td>
<td>23</td>
<td>35.</td>
<td>2a</td>
<td>36.</td>
<td>y – 10</td>
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<tr>
<td>6.</td>
<td>5070</td>
<td>37.</td>
<td>(a right (b equilateral (c isosceles</td>
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<tr>
<td>7.</td>
<td>6 4/5</td>
<td>38.</td>
<td>40°</td>
<td>39.</td>
<td>(a 260 (b 18</td>
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<tr>
<td>8.</td>
<td>4 13/16</td>
<td>40.</td>
<td>200</td>
<td>41.</td>
<td>109.2</td>
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<td>9.</td>
<td>8 4/5</td>
<td>42.</td>
<td>tax = $6.36 or $6.37</td>
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<tr>
<td>10.</td>
<td>11 3/8</td>
<td>(rounded) total</td>
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<td>3/40</td>
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<td>14.</td>
<td>3/12 or 1/4</td>
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<td>3/16</td>
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<td>15/4 or 3 3/4</td>
<td>bill = $133.68 or $133.69 (if rounded tax is used)</td>
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<td>72</td>
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