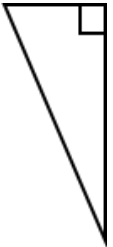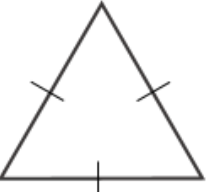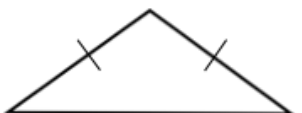---

Q1: Solve. Use paper to show your work. Enter your answer in the box.

$$2\tfrac{1}{4} - \tfrac{3}{4} = \boxed{}$$

Q2: Classify the triangles by their angle measurements and side lengths. Select the most specific name from the drop-down lists to label each triangle.

	Classify Using Angle Measurements	Classify Using Side Lengths
	a ▾	b ▾
	c ▾	d ▾
	e ▾	f ▾

a.
- ○ acute
- ○ obtuse
- ○ right

b.
- ○ equilateral
- ○ isosceles
- ○ scalene

c.
- ○ acute
- ○ obtuse
- ○ right

d.
- ○ equilateral
- ○ isosceles
- ○ scalene

e.
- ○ acute
- ○ obtuse
- ○ right

f.
- ○ equilateral
- ○ isosceles
- ○ scalene

Q3: Select the two choices that correctly show $2\frac{1}{6}$ decomposed as the sum of smaller fractions.

A	$\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

B	$\frac{6}{6} + \frac{6}{6} + \frac{1}{6}$

C	$\frac{2}{6} + \frac{1}{6}$

D	$\frac{12}{6} + \frac{1}{6}$

E	$\frac{12}{6}$

Q4: Compare each pair of fractions by selecting $<$, $>$, or $=$.

$\frac{4}{5}$ [a ▼] $\frac{4}{6}$

$\frac{7}{8}$ [b ▼] $\frac{9}{10}$

$1\frac{3}{4}$ [c ▼] $\frac{14}{8}$

a.
- ○ $<$
- ○ $>$
- ○ %3D

b.
- ○ $<$
- ○ $>$
- ○ %3D

c.
- ○ $<$
- ○ $>$
- ○ %3D

Q5: Jackson's backpack weighs $7\frac{3}{4}$ pounds. After he adds food and water to his backpack, it weighs $11\frac{3}{4}$ pounds. If the water weighs $1\frac{3}{4}$ pounds, how much does the food weigh? Use paper to show your work. Enter your answer in the box.

Jackson's food weighs [ ] pounds.

Q6: Iryna is collecting leaves for a science project. She measures the length of each leaf to the nearest $\frac{1}{4}$ inch and records the measurements in the table. Make a line plot to display the data.

Leaf	Length of Leaf (inches)
A	$3\frac{1}{4}$
B	4
C	$5\frac{1}{4}$
D	$3\frac{1}{2}$
E	$4\frac{3}{4}$
F	5
G	$4\frac{1}{4}$
H	$3\frac{1}{2}$
I	$4\frac{1}{4}$
J	$3\frac{3}{4}$
K	$4\frac{1}{4}$
L	5

Lengths of Iryna's Leaves

```
  |——+——+——+——+——+——+——+——+——+——+——+——|→
  3           4           5           6
```

Length (in inches)

Q7: Solve.

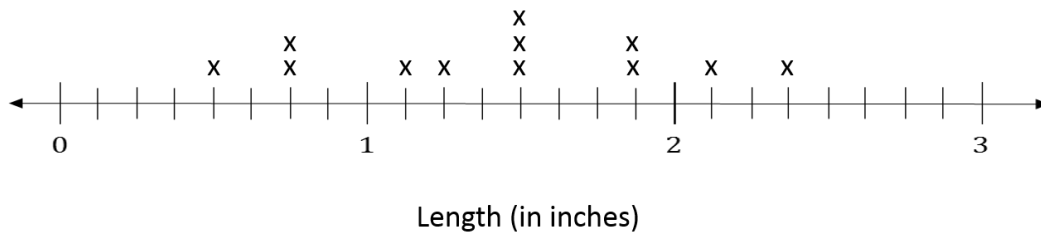$9 \times \frac{5}{8} = $ _____

Q8: Carlos needs $\frac{2}{3}$ cups of raisins to make one batch of oatmeal bars. How many cups of raisins does Carlos need to make 4 batches of oatmeal bars? Select the correct answer.

A $\frac{12}{3}$ cups

B $\frac{14}{3}$ cups

C $\frac{8}{12}$ cups

D $\frac{8}{3}$ cups

Q9: Sebastian finds a jar full of nails in his tool box. He measures the length of each nail to the nearest $\frac{1}{8}$ inch and creates the line plot shown. Enter the correct number in each box to complete the statements about Sebastian's nails.

Lengths of Sebastian's Nails

```
                              X
                  X           X
          X       X     X  X  X        X
     ◄────┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──┼──►
          0           1           2           3
```

Length (in inches)

a. Sebastian measured a total of ⬚ nails.

b. The combined length of the two longest nails is ⬚ inches.

c. The difference in length between the longest and shortest nail is ⬚ inches.

Q10: **Part A**

The number sentences show a pattern in the sum of the fractions from 0 to 1 for different denominators.

a. $\frac{0}{2} + \frac{1}{2} + \frac{2}{2} = 1\frac{1}{2}$

b. $\frac{0}{3} + \frac{1}{3} + \frac{2}{3} + \frac{3}{3} = 2$

c. $\frac{0}{7} + \frac{1}{7} + \frac{2}{7} + \ldots \frac{7}{7} = 4$

d. $\frac{0}{10} + \frac{1}{10} + \frac{2}{10} + \ldots \frac{10}{10} = 5\frac{5}{10}$

Based on this pattern, which equation will have a sum that is a whole number? Select the correct answer.

A $\frac{0}{5} + \frac{1}{5} + \frac{2}{5} + \ldots \frac{5}{5} =$

B $\frac{0}{6} + \frac{1}{6} + \frac{2}{6} + \ldots \frac{6}{6} =$

C $\frac{0}{8} + \frac{1}{8} + \frac{2}{8} + \ldots \frac{8}{8} =$

D $\frac{0}{12} + \frac{1}{12} + \frac{2}{12} + \ldots \frac{12}{12} =$
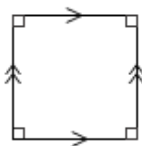
Part B
Explain your answer in the box.

Q11: How many lines of symmetry does a square have? Use paper to show your work. Enter your answer in the box.

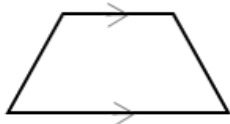A square has [   ] lines of symmetry.

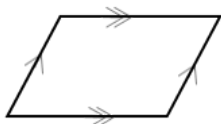**Q12:** Select the figure that is a parallelogram with no right angles.

A

B

C

D