**3rd Grade Math**

**STANDARDS: 3.NF.1, 3.MD.1, 3.MD.2, 3.OA.2, 3.OA.3, 3.OA.6, 3.G.2**

Amar and his friends made a flag for their clubhouse. They divided the flag into equal sections and colored 2 of the sections purple. The flag is shown below.
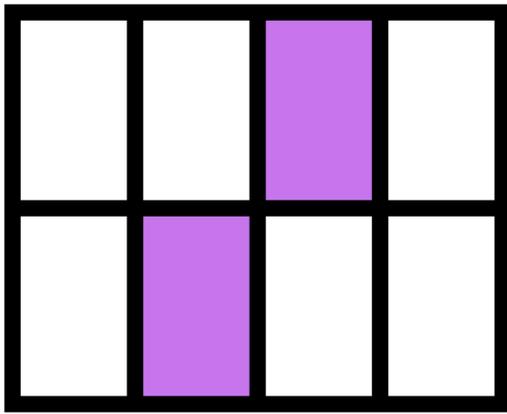

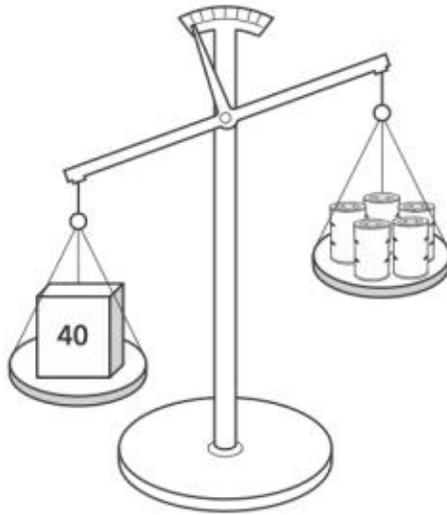
What fraction of the flag is purple?

A  1/3
**B  2/8**
C  2/6
D  5/8

**3.NF.1**
**Rationale:  Option B is correct.  Two out of 8 equal parts are purple.**

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**17** The picture below shows that one box is heavier than 5 identical cans.



The box has a mass of 40 kilograms. What could be the mass, in kilograms, of 1 can?

A   40

B   10

C   8

D   6

**3.MD.2**
**Rationale:  D is correct.  If one can weighed 6 kilograms, the total weight of the cans would be 30 kilograms which is less than 40 kilograms.**

Alex sorted 20 toy cars into 4 groups with the same number of cars in each group. Which expression represents the number of toy cars in each group?

**A  20 x 4**
**B  20 + 4**
**C  20 ÷ 4**
**D 20 – 4**

**3.OA.2**
**Rationale.  Option C is correct.**
**Interpret whole-number quotients of whole numbers, e.g., interpret 20 ÷ 4 as the number of objects in each share when 20 objects are partitioned equally into 4 shares, or as a number of shares when 20 objects are partitioned into equal shares of 4 objects each.**

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A certain dance class has 42 dancers. The teacher wants to place the class into six equal groups. Which number sentence could be used to find the number of dancers that will be in each group?

**A  6 × ? = 42**
**B  6 ÷ ? = 42**
**C  42 + 6 = ?**
**D  42 – 6 = ?**

**3.0A.6**
**Rationale. Option A is correct.**
**Understand division as an unknown-factor problem.  For example, find 42 ÷ 6 by finding the number that makes 42 when multiplied by 6.**

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Mr. Bachu bought 24 pounds of potting soil. Which sentence could describe the potting soil Mr. Bachu bought?

**A**  He bought 6 bags that weigh 4 pounds each.
**B**  He bought 5 bags that weigh 4 pounds each.
**C**  He bought 4 bags that weigh 20 pounds each.
**D**  He bought 10 bags that weigh 14 pounds each.

**3.OA.3**
**Rationale:  Option A is correct.**
**Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.**

Pedro left home this morning at the time shown on the clock below.



Tina left home 20 minutes after Pedro left. Carlos left home 18 minutes after Tina left. At what time did Carlos leave home this morning?

**A  7:57 a.m.**

**B  8:13 a.m.**

**C  8:38 a.m.**

**D  9:13 a.m.**.

**3.MD.1**
**Rationale.  Option D is correct.**
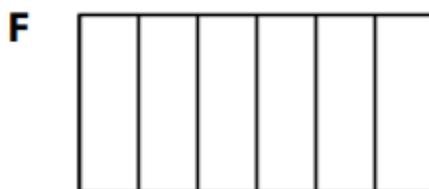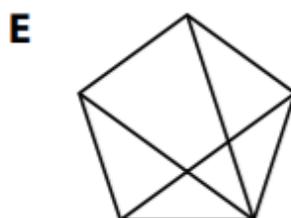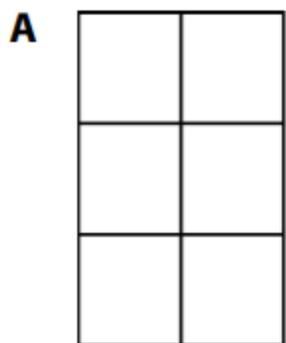**Pedro left at 8:35 a.m.  Tina left 20 minutes later at 8:55 a.m.  Carlos left 18 minutes after Tina which is 9:13 a.m.**
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## Solve the problems.

**1** Which shapes are divided into parts equal to $\frac{1}{6}$ of the shape?

Circle all the correct answers.

A

D

B

E

C

F

**3.G.2**
**Correct Answers: A, D, and F are divided into parts equal to 1/6 of the shape.**