## Ma e a c G ade 3

(1) S de de e de de a d g f e ea g f da a dd f e be g ac e a d be g e a e a d be g e a e a d be g e a e a d be g e e a e a d be g e e a e e d g e e a e e d g e e be f g e g e e S de e e e a g a ca e a e g be e e e e a a dd be g g e d g fac . B c a g a a e f a e g e e a e e a be e e a a dd be g g e d g fac . B c a g a a e f a e g e , de e a e e a be e e a a dd .

(2) S de de e de de a d g ffac , beg g fac . S de e fac ge e a a be g b f fac , a d e e fac a g a fac de e e e fac a g a fac de fac a e e e f e e.F e a e, 1/2 f e a a b c e c d be e a 1/3 f e a a a ge b c e , b 1/3 f a bb ge a 1/5 f e a e bb beca e e e e

## Operations and Algebraic Thinking

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Maa

#### **Operations and Algebraic Thinking**

#### 3.OA

Represent and solve problems involving multiplication and division.

- 1. I e de d d c f e be , e.g., e de 5 7 a e a be f b ec 5 g de f 7 b ec eac . For example, describe a context in which a total number of objects can be expressed as 5 7.
- 2. I e e e- be e f e be, e.g., e e 56 8 a e be f bec eac a e e 56 bec a e e de a 8 a e, a a be f a e e e 56 bec a e ed e a a e f 8 bec eac . For example, describe a context in which a number of shares or a number of groups can be expressed as 56 8.
- 3. Ue caadd 100 e dbe a geag aa,adeaee a e, e.g.,b gdagadea a bfe be e e e be!
- 4. De e e e e be a  $\stackrel{\bullet}{\sim}$ ca d e a ea g ee e be . For example, determine the unknown number that makes the equation true in each of the equations 8 ? = 48, 5 = 3, 6 6 = ?.

Understand properties of multiplication and the relationship between multiplication and division.

## **Number and Operations in Base Ten**

3.NBT

Use place value understanding and properties of operations to perform multi-digit arithmetic.<sup>4</sup>

- 1. 10 100.

2. Mea eade ae d eadae fbec g a dad fga (g), ga (g), ad e ().6 Add, bac, d, de e e-eddbe g a e e a a e g e e a e e cae) e de e e e b e e

## Represent and interpret data.

- 3. Da a caed 2 e g a a d a caed ba g a a e a e a d a e e e a caeg e . S e e a d e a a e a d a e a b e g f a a e e ed caed ba g a a . For example, draw a bar graph in which each square in the bar graph might represent 5 pets.
- 4. Ge ea e e e e da ab ea geg g e a ed a e a e a e a e a e a e e e e a cae a ed ff a 2 2 2 a e e be, a e, a e.

# Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

- 5. Rec g e a ea a a a b e f 🎝 e g e a d de a d c ce 🎜 fa ea ea e e .
  - a. A a e de e g 1 , ca ed a a e, a d a e e a e a ea.
  - b. A de. g e c ca bec eed gade eadb
- 6. Mea eaeabc g ae (aec,ae,ae,ae ,ae ,ae ).
- 7. Reaeaea e 2aa f 2aca adadd .
  - a. F d e a ea fa ec a ge e- be de e g b g, a d a e a ea e a e a d be f d b g e de e g.
  - - BD d⊿be,

Geometry 3.G

## Reason with shapes and their attributes.

- 1. U de a d a a d dffe e ca eg e (e.g., b e, ec a ge, a d e) a a e a b e (e.g., a gf de), a d a e a ed a b e ca de ea a ge ca eg (e.g., ad a e a). Rec g e b e, ec a ge, a d a e a e a d b e g a f e e bca eg e.
- 2. Pa a a ea . E e a a ea . E e a ea f eac a a a a f ac f e e. For example, partition a shape into 4 parts with equal area, and describe the area of each part as 1/4 of the area of the shape.