# Dividing Fractions

*Problems about division and rational numbers.*

**Problem   1**   I have a recipe which calls for 4 cups of flour. If I make $\frac{1}{3}$ of a batch, how many cups of flour will I use?

*Which type of division is the above problem?*

***Multiple Choice:***

  (a) *The problem is a how many groups division problem.*

  (b) *The problem is a how many in one group division problem.*

  (c) *The problem is not a division problem.* ✓

---

**Problem   2**   I have a recipe which calls for 6 cups of flour. If I use $\frac{7}{5}$ of a cup of flour, how many batches can I make?

*Which type of division is the above problem?*

***Multiple Choice:***

  (a) *The problem is a how many groups division problem.* ✓

  (b) *The problem is a how many in one group division problem.*

  (c) *The problem is not a division problem.*

---

**Problem   3**   We know that $\frac{7}{12}$ of a cup of water fills $\frac{3}{8}$ of a jug. How much water will fill the whole jug?

*Which type of division is the above problem?*

***Multiple Choice:***

  (a) *The problem is a how many groups division problem.*

(b) *The problem is a how many in one group division problem.* ✓

(c) *The problem is not a division problem.*

---

**Problem 4** We know that $\dfrac{7}{12}$ of a cup of water fills $\dfrac{3}{8}$ of a jug. If we pour $\dfrac{1}{2}$ of a cup of water into the jug, how many more cups can I add later?

*Which type of division is the above problem?*

***Multiple Choice:***

(a) *The problem is a how many groups division problem.*

(b) *The problem is a how many in one group division problem.*

(c) *The problem is not a division problem.* ✓

---

**Problem 5** *A neighborhood watch committee patrols a route which is $\dfrac{18}{5}$ of a mile long. If Mrs. Little walks $\dfrac{2}{3}$ of a mile each day along the route, what fraction of the route is Mrs. Little patrolling?*

*Use a picture to answer this problem!*

*Mrs. Little patrols* $\boxed{\dfrac{5}{27}}$ *of the route.*