

# Focus & Within Grade Coherence

Task Handout, Grade 6

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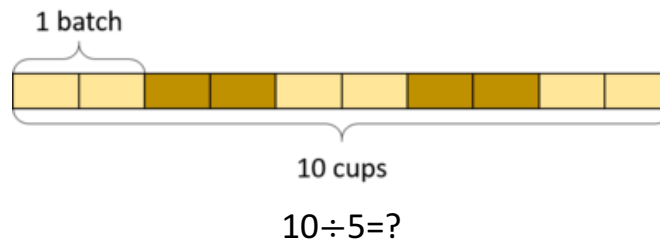
# Major Task #1

Jasmine has taken an online boating safety course and is now completing her end-of-course exam. As she answers each question, the progress bar at the bottom of the screen shows what portion of the test she has finished. She has just completed Question 16 and the progress bar shows she is 20% complete. How many total questions are on the test? Use a table, diagram, or equation to justify your answer.

Source: EngageNY.org of the New York State Education Department. Grade 6 Mathematics, Module 1, End of Module Assessment. Available from <https://nysed-prod.engageny.org/resource/grade-6-mathematics-module-1/file/110561> accessed 10 June 2016.

## Major Task #2

10 cups of flour make 5 batches of cookies. How many cups of flour in one batch?  
Here are a diagram and a division equation that represent this situation:



For each question, draw a diagram and write a division equation.

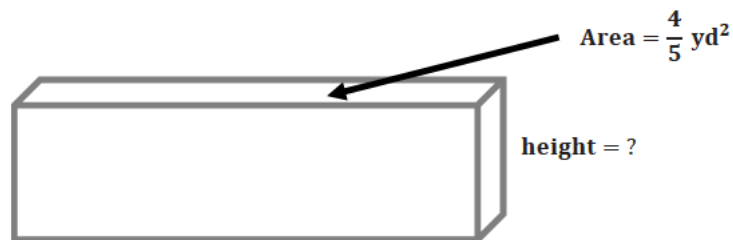
- 6 cups of flour make 4 batches of cupcakes. How many cups of flour in one batch?
- 2 cups of flour make  $\frac{2}{3}$  of a batch of bread. How many cups of flour in one batch?
- $1\frac{1}{4}$  cups of flour makes  $\frac{1}{2}$  a batch of rolls. How many cups of flour in one batch?

Source: Available from <https://www.illustrativemathematics.org/content-standards/6/NS/A/tasks/2170> accessed on 10 June 2016, licensed by Illustrative Mathematics under CC BY--NC--SA 4.0.

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# Supporting Task #1

The volume of the rectangular prism is  $\frac{35}{15}$  yd<sup>3</sup>. Determine the missing measurement using a one-step equation.



Source: EngageNY.org of the New York State Education Department. Grade 6 Mathematics, Module 5, Lesson 14. Available from <https://www.engageny.org/resource/grade-6-mathematics-module-5-topic-c-lesson-14/file/45286> accessed 10 June 2016.

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# Within Grade Coherence Task #1

A fruit salad consists of blueberries, raspberries, grapes, and cherries. The fruit salad has a total of 280 pieces of fruit. There are twice as many raspberries as blueberries, three times as many grapes as cherries, and four times as many cherries as raspberries. How many cherries are there in the fruit salad?

Source: Available from <https://www.illustrativemathematics.org/content-standards/tasks/1032>, accessed on 10 June 2016, licensed by Illustrative Mathematics under CC BY--NC--SA 4.0.

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## Within Grade Coherence Task #2

In a bag of marbles,  $\frac{3}{5}$  of the marbles are blue and the rest are red. If the number of red marbles is doubled and the number of blue marbles stays the same, what fraction of the marbles will be red?

Source: Available from <https://www.illustrativemathematics.org/content-standards/6/MP/A/1/tasks/912>, accessed on 10 June 2016, licensed by Illustrative Mathematics under CC BY--NC--SA 4.0.