## Preview and Remove from Homework

# Items in your Homework: 10
**Preview Item:** 4 of 10 | **Item #:** 7.6.19
**Difficulty:** Moderate
**Median time:** 2m
**Correct on first try:** 59.8%

**Section 7.6** | **Objective:** Solve problems about numbers.
**Availability:** Homework, Tests and Quizzes, Study Plan
**Origin:** Publisher

Question Help

If three times a number, added to 2 is divided by the number plus 6, the result is five halves. Find the number.

The number is 26.

## Preview and Remove from Homework

# Items in your Homework: 10
**Preview Item:** 5 of 10 | **Item #:** 7.6.21
**Difficulty:** Hard
**Median time:** 1m 57s
**Correct on first try:** 43.6%

**Section 7.6** | **Objective:** Solve problems about work.
**Availability:** Homework, Tests and Quizzes, Study Plan
**Origin:** Publisher

Question Help

Smith Engineering is in the process of reviewing the salaries of their surveyors. During this review, the company found that an experienced surveyor can survey a roadbed in 4 hours. An apprentice surveyor needs 6 hours to survey the same stretch of road. If the two work together, find how long it takes them to complete the job.

The answer is $2\frac{2}{5}$ hr.

(Type an integer or a simplified fraction.)

## Preview and Remove from Homework

# Items in your Homework: 10
**Preview Item:** 6 of 10 | **Item #:** 7.6.23
**Difficulty:** Hard
**Median time:** 2m 10s
**Correct on first try:** 38.9%

**Section 7.6** | **Objective:** Solve problems about work.
**Availability:** Homework, Tests and Quizzes, Study Plan
**Origin:** Publisher

Question Help

In 5 minutes, a conveyor belt moves 200 pounds of recyclable aluminum from the delivery truck to a storage area. A smaller belt moves the same quantity of cans the same distance in 7 minutes. If both belts are used, find how long it takes to move the cans to the storage area.

The conveyor belts can move the 200 pounds of recyclable aluminum from the delivery truck to a storage area in $2\frac{11}{12}$ minutes.

(Simplify your answer. Type an integer, fraction, or a mixed number.)

## Preview and Remove from Homework

# Items in your Homework: 10
**Preview Item:** 8 of 10 | **Item #:** 7.6.27
**Difficulty:** Hard
**Median time:** 2m 43s
**Correct on first try:** 50.3%

**Section 7.6** | **Objective:** Solve problems about distance.
**Availability:** Homework, Tests and Quizzes, Study Plan
**Origin:** Publisher

Question Help

A cyclist rode the first 36-mile portion of his workout at a constant speed. For the 24-mile cooldown portion of his workout, he reduced his speed by 4 miles per hour. Each portion of the workout took the same time. Find the cyclist's speed during the first portion and find his speed during the cooldown portion.

The cyclist's speed during the first portion was 12 miles per hour and his speed during the second portion was 8 miles per hour.

# Preview and Remove from Homework

# Items in your Homework: 10
**Preview Item:** 9 of 10 | **Item #:** 7.6.33

**Section 7.6** | **Objective:** Solve problems about work.
**Availability:** Homework, Tests and Quizzes, Study Plan
**Origin:** Publisher

**Difficulty:** Hard
**Median time:** 2m 20s
**Correct on first try:** 41.5%

Question Help

Marcus and Tony work for Lombardo's Pipe and Concrete. Mr. Lombardo is preparing an estimate for a customer. He knows that Marcus lays a slab of concrete in 6 hours. Tony lays the same size slab in 4 hours. If both work on the job and the cost of labor is $50.00 per hour, decide what the labor estimate should be.

The labor estimate should be $ 120.00 .

# Preview and Remove from Homework

# Items in your Homework: 10

**Preview Item:** 10 of 10 | **Item #:** 7.6.35

**Section 7.6** | **Objective:** Solve problems about distance.

**Difficulty:** Hard

**Availability:** Homework, Tests and Quizzes, Study Plan

**Median time:** 3m 18s

**Origin:** Publisher

**Correct on first try:** 38%

Question Help

A pilot can travel 560 miles with the wind in the same amount of time as 360 miles against the wind. Find the speed of the wind if the pilot's speed in still air is 230 miles per hour.

The speed of the wind is 50 miles per hour.