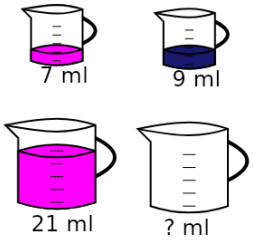
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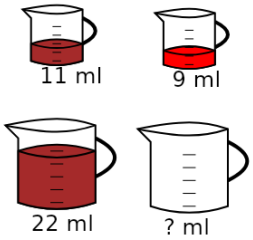
Rates and Ratios - Advanced

1 This paint color needs 9 ml of blue for every 7 ml of magenta. How much blue is needed if you have 21 ml of magenta



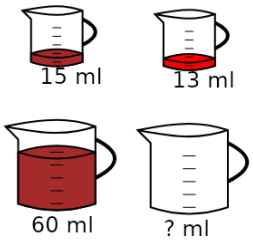
A	24 ml
B	29 ml
C	27 ml
D	23 ml

2 This sundae needs 9 ml of strawberry for every 11 ml of chocolate. How much strawberry is needed if you have 22 ml of chocolate



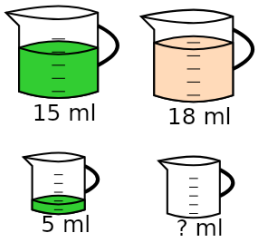
A	16 ml
B	13 ml
C	17 ml
D	18 ml

3 This sundae needs 13 ml of strawberry for every 15 ml of chocolate. How much strawberry is needed if you have 60 ml of chocolate



A	54 ml
B	53 ml
C	58 ml
D	52 ml

4 This smoothie needs 18 ml of peach for every 15 ml of lime. How much peach is needed if you have 5 ml of lime

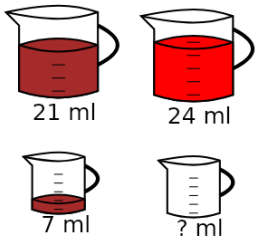


A	6 ml
B	9 ml
C	13 ml
D	2 ml

Name

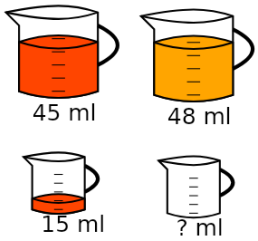
Rates and Ratios - Advanced

5 This sundae needs 24 ml of strawberry for every 21 ml of chocolate. How much strawberry is needed if you have 7 ml of chocolate



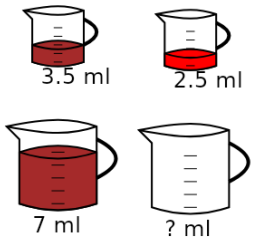
A	2 ml
B	3 ml
C	9 ml
D	8 ml

6 This sauce needs 48 ml of mustard for every 45 ml of ketchup. How much mustard is needed if you have 15 ml of ketchup



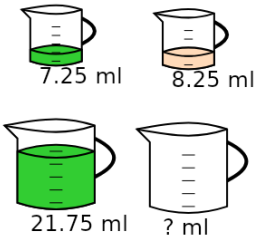
A	17 ml
B	16 ml
C	22 ml
D	10 ml

7 This sundae needs 2.5 ml of strawberry for every 3.5 ml of chocolate. How much strawberry is needed if you have 7 ml of chocolate



A	4.25 ml
B	6 ml
C	3 ml
D	5 ml

8 This smoothie needs 8.25 ml of peach for every 7.25 ml of lime. How much peach is needed if you have 21.75 ml of lime

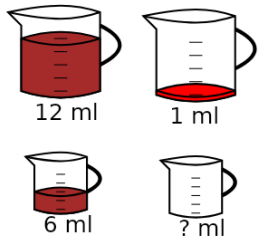


A	24.75 ml
B	24.5 ml
C	24.25 ml
D	23.75 ml

Name

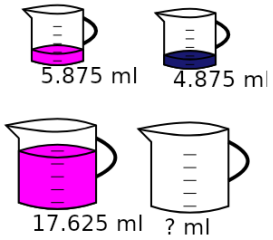
Rates and Ratios - Advanced

9 This sundae needs 1 ml of strawberry for every 12 ml of chocolate. How much strawberry is needed if you have 6 ml of chocolate



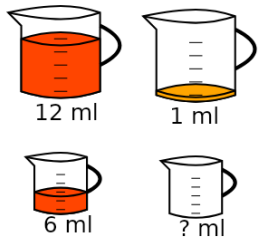
A	0.5 ml
B	1.5 ml
C	0.25 ml
D	1 ml

10 This paint color needs 4.875 ml of blue for every 5.875 ml of magenta. How much blue is needed if you have 17.625 ml of magenta



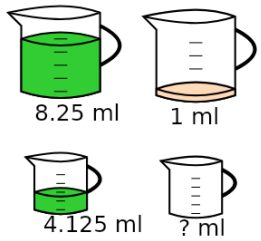
A	13.38 ml
B	15.12 ml
C	14.38 ml
D	14.63 ml

11 This sauce needs 1 ml of mustard for every 12 ml of ketchup. How much mustard is needed if you have 6 ml of ketchup



A	1.5 ml
B	2 ml
C	0.5 ml
D	0.25 ml

12 This smoothie needs 1 ml of peach for every 8.25 ml of lime. How much peach is needed if you have 4.125 ml of lime



A	0.75 ml
B	2 ml
C	0.5 ml
D	0.25 ml

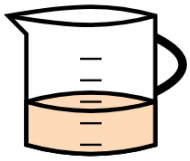
Name

Rates and Ratios - Advanced

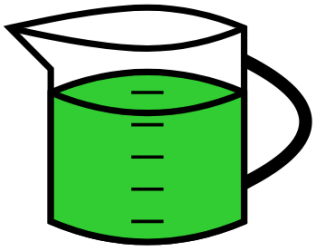
13 This smoothie needs 3/4 cup of peach for every 1/2 cup of lime. How many cups of peach is needed if you have 1 1/2 cup of lime



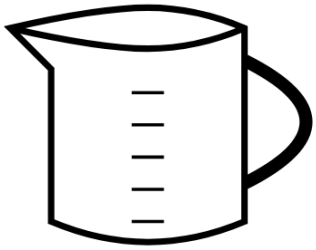
1/2 cup



3/4 cup



1 1/2 cup



? cup

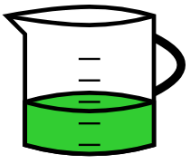
A $1\frac{3}{8}\text{cup}$

B 11cup

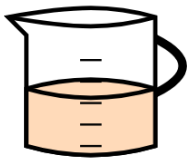
C $2\frac{1}{4}\text{cup}$

D $\frac{9}{16}\text{cup}$

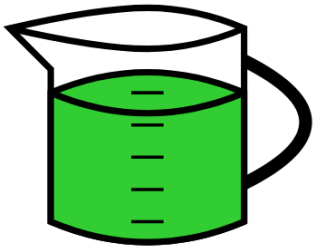
14 This smoothie needs 1/2 cup of peach for every 3/8 cup of lime. How many cups of peach is needed if you have 3/4 cup of lime



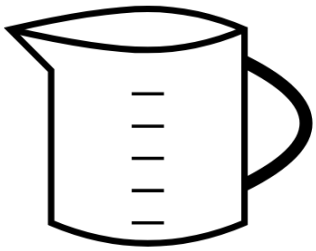
3/8 cup



1/2 cup



3/4 cup



? cup

A $\frac{11}{24}\text{cup}$

B $\frac{9}{64}\text{cup}$

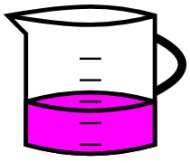
C $3\frac{2}{3}\text{cup}$

D 1cup

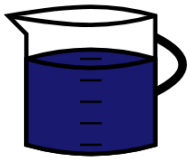
Name

Rates and Ratios - Advanced

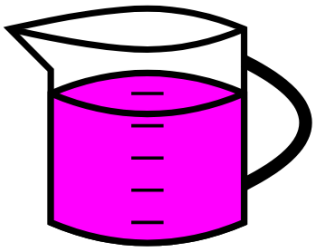
15 This paint color needs 1/4 cup of blue for every 1/8 cup of magenta. How many cups of blue is needed if you have 1/4 cup of magenta



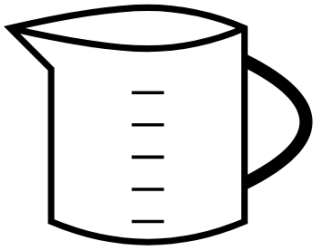
1/8 cup



1/4 cup



1/4 cup



? cup

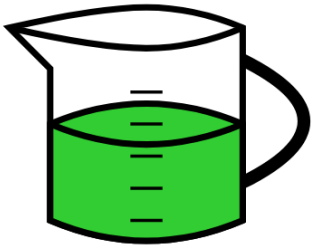
A $\frac{9}{16}\text{cup}$

B $\frac{9}{17}\text{cup}$

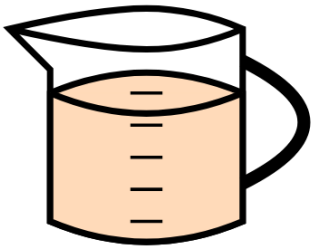
C 9cup

D $\frac{1}{2}\text{cup}$

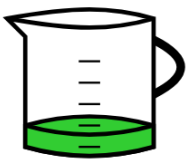
16 This smoothie needs 3 cup of peach for every 2 1/4 cup of lime. How many cups of peach is needed if you have 3/4 cup of lime



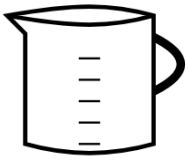
2 1/4 cup



3 cup



3/4 cup



? cup

A $\frac{13}{36}\text{cup}$

B $1\frac{4}{9}\text{cup}$

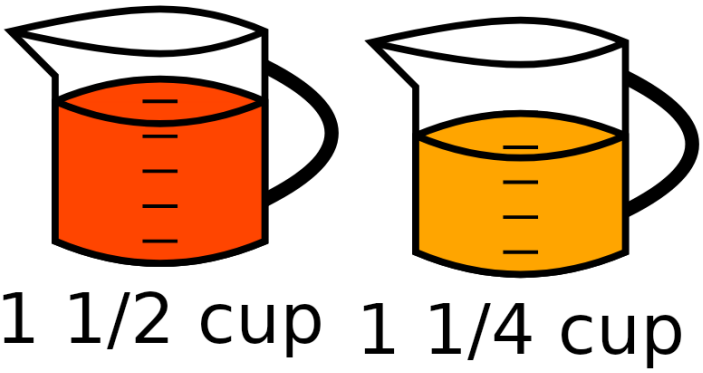
C 1cup

D $3\frac{1}{4}\text{cup}$

Name

Rates and Ratios - Advanced

17 This sauce needs 1 1/4 cup of mustard for every 1 1/2 cup of ketchup. How many cups of mustard is needed if you have 3/4 cup of ketchup





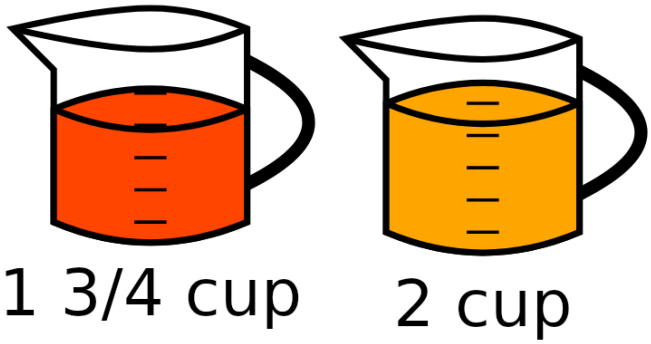
A $1\frac{13}{32}\text{cup}$

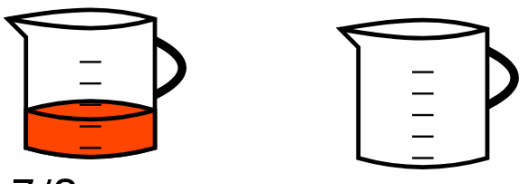
B $5\frac{2}{3}\text{cup}$

C $\frac{5}{8}\text{cup}$

D $\frac{17}{19}\text{cup}$

18 This sauce needs 2 cup of mustard for every 1 3/4 cup of ketchup. How many cups of mustard is needed if you have 7/8 cup of ketchup





A $3\frac{1}{16}\text{cup}$

B 1cup

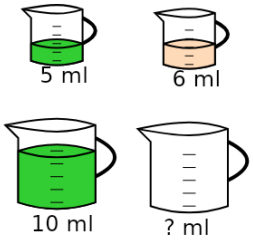
C $1\frac{4}{7}\text{cup}$

D $\frac{11}{28}\text{cup}$

Name

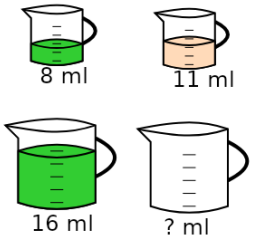
Rates and Ratios - Advanced

19 This smoothie needs 6 ml of peach for every 5 ml of lime. How much peach is needed if you have 10 ml of lime



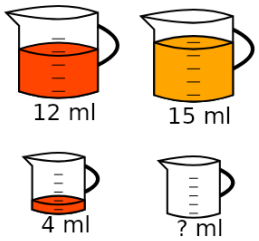
A	15 ml
B	18 ml
C	12 ml
D	11 ml

20 This smoothie needs 11 ml of peach for every 8 ml of lime. How much peach is needed if you have 16 ml of lime



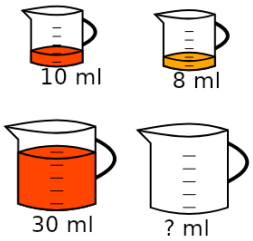
A	15 ml
B	22 ml
C	21 ml
D	28 ml

21 This sauce needs 15 ml of mustard for every 12 ml of ketchup. How much mustard is needed if you have 4 ml of ketchup



A	5 ml
B	3 ml
C	7 ml
D	8 ml

22 This sauce needs 8 ml of mustard for every 10 ml of ketchup. How much mustard is needed if you have 30 ml of ketchup

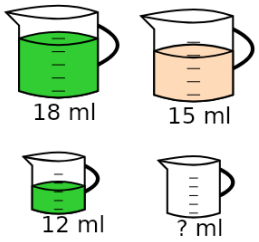


A	19 ml
B	17 ml
C	24 ml
D	29 ml

Name

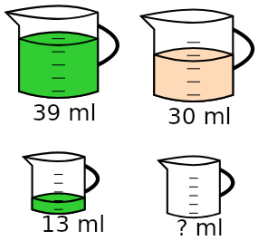
Rates and Ratios - Advanced

23 This smoothie needs 15 ml of peach for every 18 ml of lime. How much peach is needed if you have 12 ml of lime



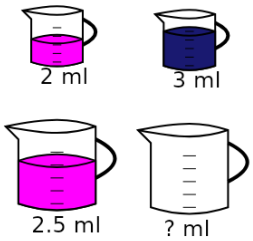
A	16 ml
B	14 ml
C	10 ml
D	17 ml

24 This smoothie needs 30 ml of peach for every 39 ml of lime. How much peach is needed if you have 13 ml of lime



A	10 ml
B	14 ml
C	9 ml
D	8 ml

25 This paint color needs 3 ml of blue for every 2 ml of magenta. How much blue is needed if you have 2.5 ml of magenta



A	4.75 ml
B	4 ml
C	3.75 ml
D	5.25 ml

26 How many soccer balls are there?

$$\begin{aligned}&\text{tennis balls} : 2\\&\text{soccer balls} : ?\\&(\text{soccer} : \text{ALL balls}) = (5:7)\end{aligned}$$

A	8	B	5
C	4	D	1

27 How many boys are there?

$$\begin{aligned}&\text{boys} : ?\\&\text{girls} : 6\\&(\text{boys} : \text{ALL kids}) = (3:5)\end{aligned}$$

A	18	B	17
C	6	D	9

Name

Rates and Ratios - Advanced

28 What is the total number of balls?

$$\begin{aligned}&\text{tennis balls} : 2\\&\text{soccer balls} : ?\\&(\text{soccer} : \text{ALL balls}) = (5:7)\end{aligned}$$

A 7	B 1
C 2	D 13

29 What is the total number of pets?

$$\begin{aligned}&\text{cats} : 10\\&\text{dogs} : ?\\&(\text{dogs} : \text{ALL pets}) = (2:7)\end{aligned}$$

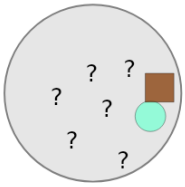
A 17	B 4
C 19	D 14

30 What can this ratio be simplified to?

21:12

A 7:4	B 9:9
C 3:6	D 9:13

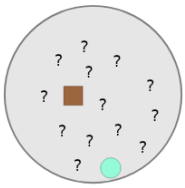
31 How many squares should there be if they are in the given ratio?



all shapes : 8
(circles:squares)=(3:5)

A 2
B 5
C 11
D 4

32 How many circles should there be if they are in the given ratio?



all shapes : 15
(circles:squares)=(2:3)

A 13
B 6
C 1
D 4

33 How many tennis balls are there?

$$\begin{aligned}&\text{ALL balls} : 7\\&(\text{tennis} : \text{soccer}) = (3:4)\end{aligned}$$

A 10	B 4
C 3	D 7

34 How many boys are there?

$$\begin{aligned}&\text{ALL kids} : 21\\&(\text{boys} : \text{girls}) = (3:4)\end{aligned}$$

A 14	B 8
C 17	D 9

35 What is the total hours in this scenario?

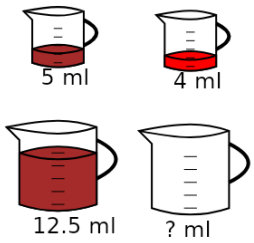
wage: 0.75 $/hr total earnings: 1.5 $

A 2.5 hrs	B 1.75 hrs
C 3.5 hrs	D 2 hrs

Name

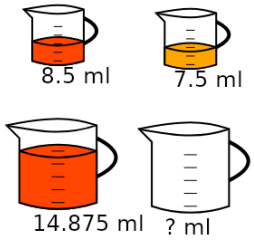
Rates and Ratios - Advanced

36 This sundae needs 4 ml of strawberry for every 5 ml of chocolate. How much strawberry is needed if you have 12.5 ml of chocolate



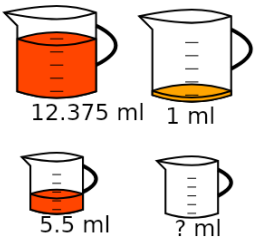
A	8.75 ml
B	10 ml
C	10.5 ml
D	11.5 ml

37 This sauce needs 7.5 ml of mustard for every 8.5 ml of ketchup. How much mustard is needed if you have 14.875 ml of ketchup



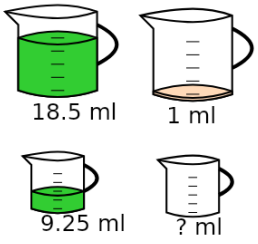
A	12.38 ml
B	12.62 ml
C	13.13 ml
D	12.88 ml

38 This sauce needs 1 ml of mustard for every 12.375 ml of ketchup. How much mustard is needed if you have 5.5 ml of ketchup



A	0.44 ml
B	1.56 ml
C	1.06 ml
D	1.44 ml

39 This smoothie needs 1 ml of peach for every 18.5 ml of lime. How much peach is needed if you have 9.25 ml of lime



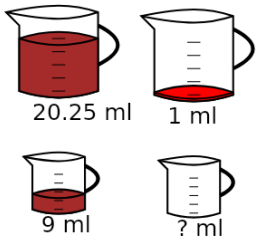
A	1 ml
B	0.5 ml
C	0.75 ml

Name



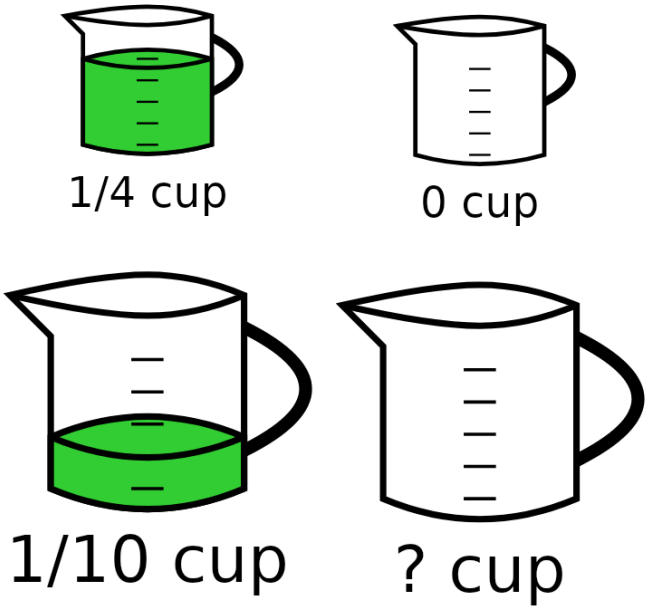
Rates and Ratios - Advanced

40 This sundae needs 1 ml of strawberry for every 20.25 ml of chocolate. How much strawberry is needed if you have 9 ml of chocolate



A	0.44 ml
B	0.06 ml
C	0.56 ml
D	2.19 ml

41 This smoothie needs 0 cup of peach for every 1/4 cup of lime. How many cups of peach is needed if you have 1/10 cup of lime



A	0cup
B	2cup
C	4cup

42 What is the total hours in this scenario?

wage: 0.83 $/hr total earnings: 10 $

A 10 hrs	B 12 hrs
C 13.75 hrs	D 12.25 hrs

43 What is the price per kg of this item?

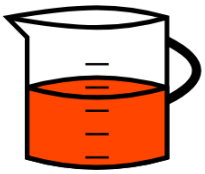


A	$1.00/kg
B	$1.25/kg
C	$0.50/kg
D	$0.75/kg

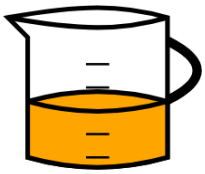
Name

Rates and Ratios - Advanced

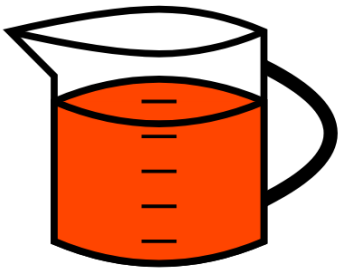
44 This sauce needs 1/2 cup of mustard for every 5/8 cup of ketchup. How many cups of mustard is needed if you have 5/6 cup of ketchup



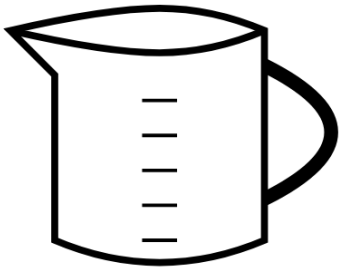
5/8 cup



1/2 cup



5/6 cup



? cup

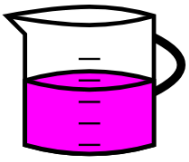
A $\frac{25}{96}\text{cup}$

B $\frac{2}{3}\text{cup}$

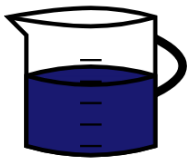
C $\frac{13}{17}\text{cup}$

D $1\frac{1}{12}\text{cup}$

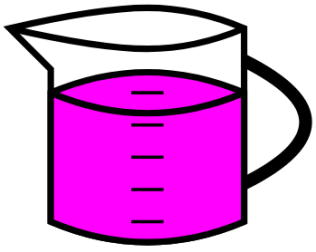
45 This paint color needs 1 1/2 cup of blue for every 1 3/8 cup of magenta. How many cups of blue is needed if you have 1 5/6 cup of magenta



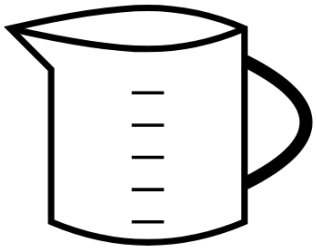
1 3/8 cup



1 1/2 cup



1 5/6 cup



? cup

A $1\frac{4}{15}\text{cup}$

B 2cup

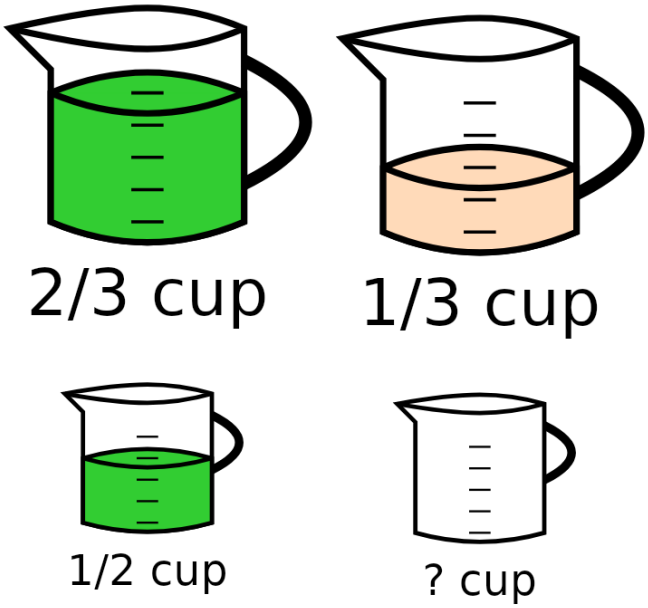
C $4\frac{3}{4}\text{cup}$

D $\frac{19}{44}\text{cup}$

Name

Rates and Ratios - Advanced

46 This smoothie needs 1/3 cup of peach for every 2/3 cup of lime. How many cups of peach is needed if you have 1/2 cup of lime



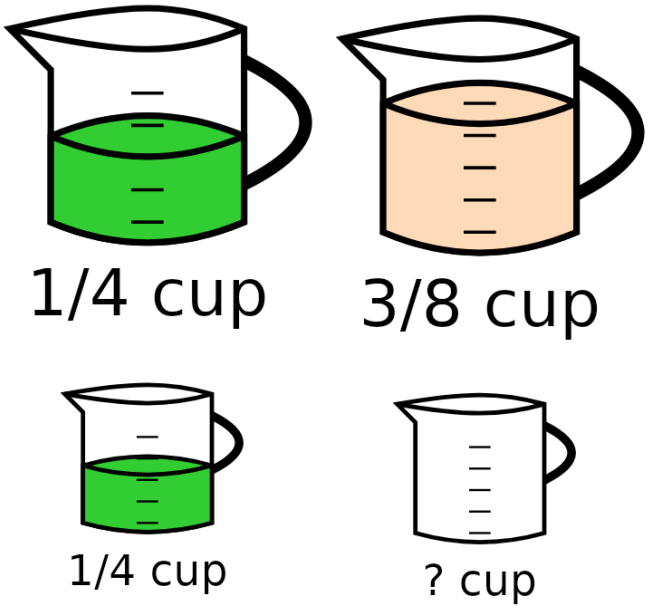
A $\frac{2}{3}\text{cup}$

B $\frac{1}{4}\text{cup}$

C $\frac{1}{3}\text{cup}$

D 2cup

47 This smoothie needs 3/8 cup of peach for every 1/4 cup of lime. How many cups of peach is needed if you have 1/4 cup of lime



A $\frac{3}{128}\text{cup}$

B 7cup

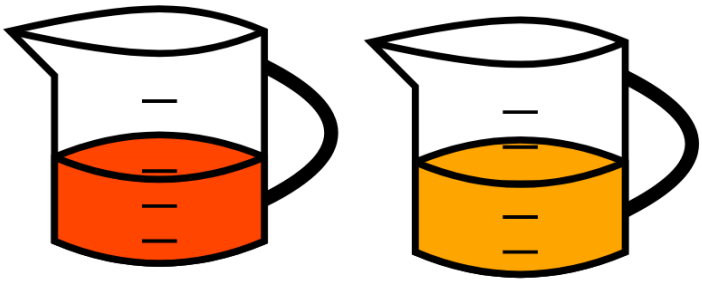
C $\frac{7}{32}\text{cup}$

D $\frac{3}{8}\text{cup}$

Name

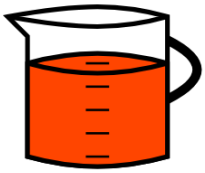
Rates and Ratios - Advanced

48 This sauce needs 1 1/8 cup of mustard for every 1 1/20 cup of ketchup. How many cups of mustard is needed if you have 1 3/4 cup of ketchup

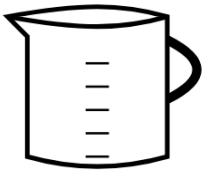


1 1/20 cup

1 1/8 cup



1 3/4 cup



? cup

A $3\frac{20}{21}\text{cup}$

B $2\frac{43}{640}\text{cup}$

C $2\frac{19}{32}\text{cup}$

D $1\frac{7}{8}\text{cup}$

49 What is the price per kg of this item?



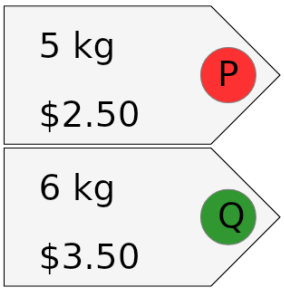
A $0.13/kg

B $0.62/kg

C $1.12/kg

D $0.38/kg

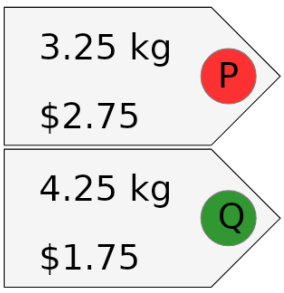
50 Which option has the lowest price per kg?



A Q

B P

51 Which option has the lowest price per kg?



A Q

B P

52 What is the total earnings in this scenario?

wage: 10 $/hr total hours: 1 hrs

A 9.25 $

B 8.25 $

C 10 $

D 9.5 $

Name



Rates and Ratios - Advanced

53 What is the total earnings in this scenario?

wage: 8.5 $/hr total hours: 0.5 hrs

A 4.25 $	B 2.25 $
C 5 $	D 5.5 $

54 What is the price per kg of this item?



A $39.50/kg

B $40.00/kg

C $39.25/kg

D $39.75/kg

55 What is the price per kg of this item?



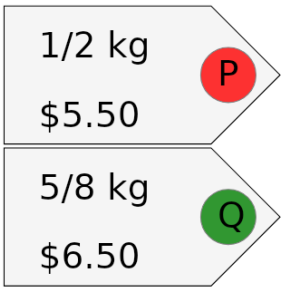
A $28.75/kg

B $31.00/kg

C $30.00/kg

D $30.25/kg

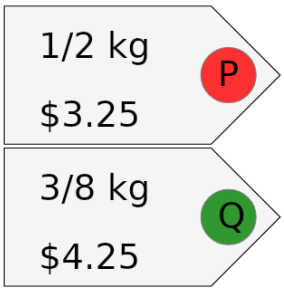
56 Which option has the lowest price per kg?



A P

B Q

57 Which option has the lowest price per kg?



A P

B Q