New England Common Assessment Program

Student Work Samples
2012

Grade 7

Mathematics

⓫

12

11

$3+3=6$

$F+F=G$

$6+12=3+3+3+3+3+3=18$

$G+H=F+F+F+F+F+F$

$$\begin{array}{r} 18 \\ -\ 6 \\ \hline 12 \end{array}$$

The value of H is 12.

11

$$G + H = \underbrace{3 + 3}_{G} + \underbrace{3 + 3}_{G} + \underbrace{3 + 3}_{G}$$

The value of H is 2

⓬

$1.50 ~~$1.00~~ ~~$0.40~~ ~~$0.25~~, ~~$0.40~~, ~~$0.50~~, ~~$0.75~~, $0.90
~~$0.50~~ ~~$0.25~~ ~~$1.25~~ ~~$1.00~~, ~~$1.00~~, ~~$1.25~~, $1.50
~~$1.00~~ ~~$0.40~~ ~~$0.75~~

The median is $0.90.

⓬

the median is 25¢

13

$\angle KJL = 72°$

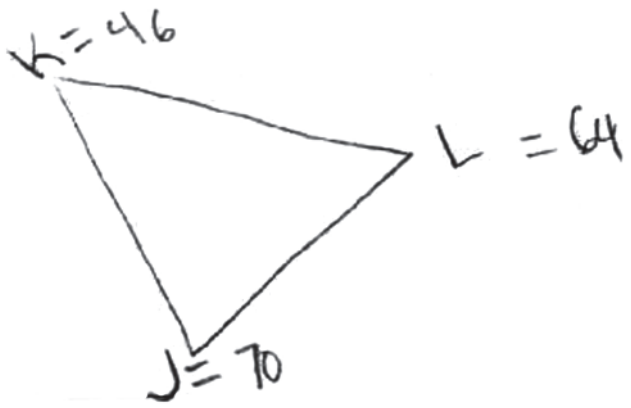
$\angle JLK = 60°$

$\angle LKJ = 48°$

13

J.) 72° , L.) 61° , K.) 48°

13



13

$K = 132^\circ$

$J = 72^\circ$

$L = 60^\circ$

13

J - L = 73° L - K = 60°

K - J = 62°

13

$J = 72^\circ$
$L = 30^\circ$
$K = 42$

14

a. $47.50

b. 90 copies

14

a. 15 copies = $7.50

10 − 20 = 15 $ difference

$$\begin{array}{r} 7.50 \\ 2\overline{)15.0} \\ 14 \\ \hline 10 \end{array}$$

b. $60 = 90 copies

$$\begin{array}{r} 15 \\ \times 4 \\ \hline 60 \end{array}$$

50 + 10 + 10 + 10 + 10 = 90

14

a. 10 copies = $40
15 copies = $45
20 copies = $55
25 copies = $60

$15

b. 50 = 100
60 = 140
70 = 155
75 = $160

15

= boys

= girls

= boys joined after

a. 12 squares

b. 3:7

c. 16

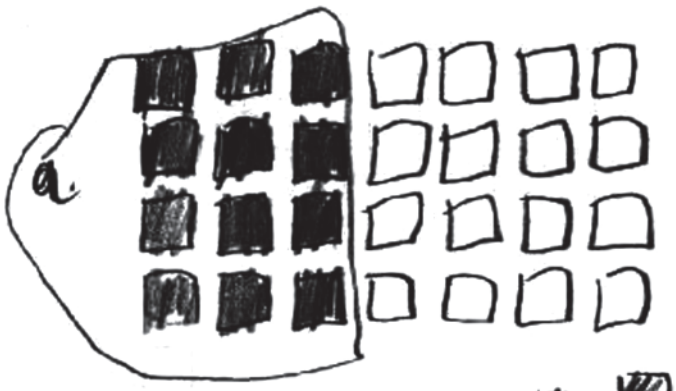
15

A- 12

B- 3:7

C- 16

15



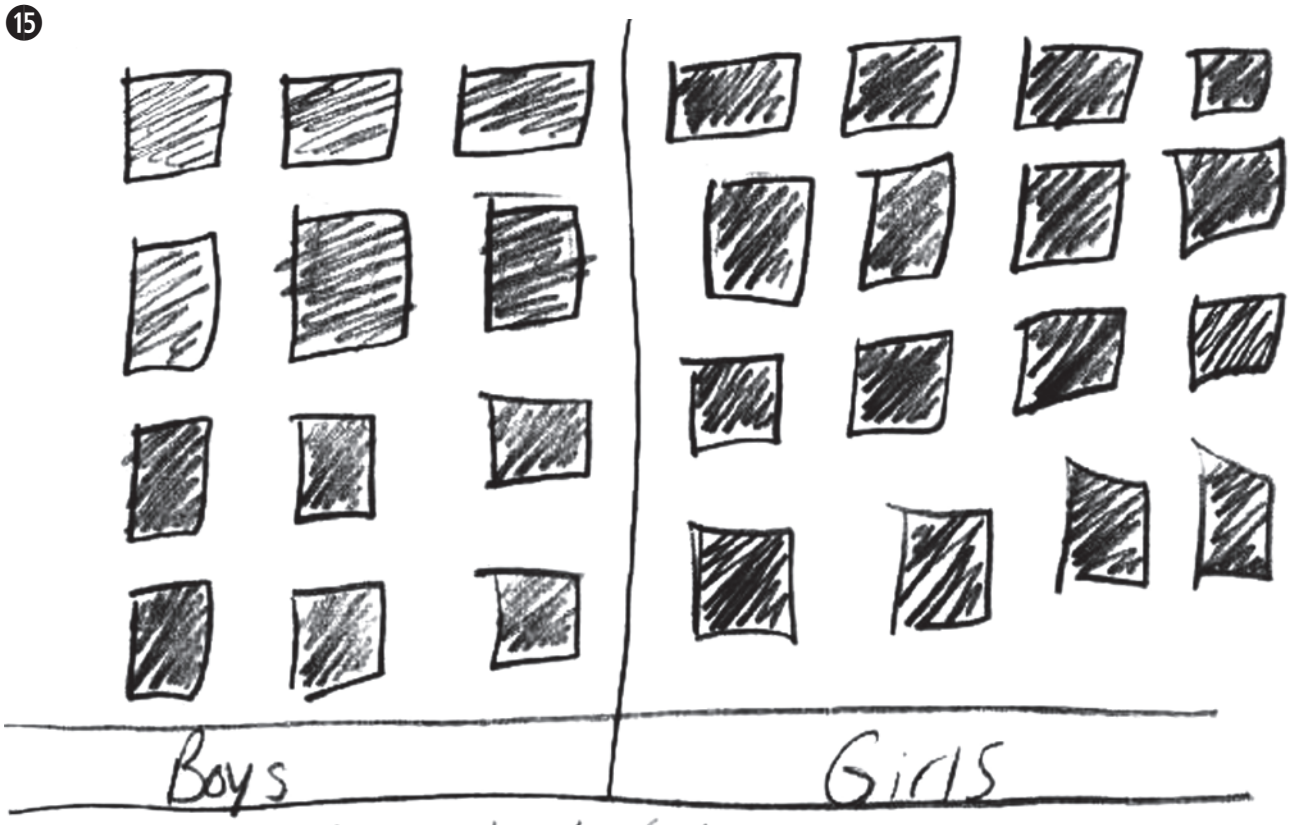
b. 12 : 28

28 = total

12 = boys

c. 24 boys

15



a. 12 should be shaded in.
b. 11:28 is the ratio.
c. 20 boys are in the chorus

15

a Half is Boys and
Half is girls.