1. The 5 starters on the basketball
(28) team were tall. Their heights were
71 inches, 72 inches, 73 inches,
75 inches, and 84 inches. What
was the average height of the
5 starters?

2. Miguel bought 7 pounds of apples
(28) for $0.78 per pound and paid
for them with a ten-dollar bill.
How much should he get back in
change?

3. On the first day of their 2058-mile
(11) trip, the Martins drove 586 miles.
How many more miles do they have
to drive until they complete their
trip?

4. The coordinates of three vertices
(Inv. 3) of a square are (1, −2), (5, −2), and
(5, 2).

   a. What are the coordinates of the
   fourth vertex?

   b. What is the area of the square?

5. Diagram this statement. Then
(22) answer the questions that follow.

   *The Claytons completed 20% of
   their 2030-mile trip the first day.*

   a. How many miles did they travel
   the first day?

   b. How many miles of their trip did
   they still have to travel?

6. If the perimeter of a square is
(19) 5 feet, how many inches long is
each side of the square?

7. Rewrite $\frac{3}{5}$ and $\frac{3}{4}$ so that they have
(30) common denominators. Then add
the fractions and simplify the sum.

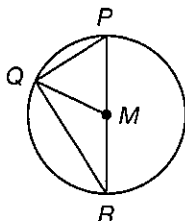**8.** Describe the rule of this function.
(16)

Input	Output
1	5
2	10
3	15
4	20

9. Estimate the quotient when 20,260 is divided by 19.
(29)

10. Reduce: $\frac{120}{270}$
(24)

11. Compare: $\frac{3}{4}$ ◯ $\frac{4}{3}$
(30)

12. Find the least common multiple (LCM) of 10 and 12.
(27)

13. The figure shows a circle with the center at M.
(7, Inv. 2)

a. Which chord is a diameter?

b. Which central angle appears to be an acute angle?

14. **a.** Write the prime factorization of 441.
(21)

b. Find $\sqrt{441}$.

Solve 15–17.

15. $7w = 5 \cdot 14$
(3)

16. $516 + m = 653$
(3)

17. $81 - f = 42$
(3)

Simplify 18–20.

18. $\frac{3}{4} - \frac{1}{3}$
(30)

19. $\left(\frac{3}{4} \cdot \frac{2}{3}\right) - \frac{1}{6}$
(30)

20. $2\frac{1}{2} \div 1\frac{3}{5}$
(26)

66   *Saxon Math* Course 2

Test __6__ Form __B__ Date _____ Score _____ Name __Key__

① name ③ # ④ ⑦⓪

Show **all** work on this paper. Do not write on the test.
bugala 3
neatness 3

1.
③
```
  1
 71        75 in.
 72      5)375
 73       35↓
 75        25
+84       -25
375         0
```
① Prob/work
① answer
① label

⌐ 75 inches

2.
③
```
         9 9 10
 $.78     $ 10.00
 × 7      - 5 46
$5.46     $ 4.54
```
① Prob/work
① answer
① label

⌐ $4.54

3.
③
```
  1 9 15
  2 0 8 8
 -  5 8 6
  1 4 7 2
```
① Prob/work
① answer
① label

⌐ 1472 miles

4.
④
(1,-2)   (5,2)
(5,-2)   (1,2)

① plotting
② answers
① label

4·4=16

a) (1, 2)
b) 16 units²

5.
⑥   20% = 20/100 = 1/5   5)2030   406 miles
```
2030
406
406
406           ₃10 ₂     20
406      2ᴼ Ɵ 3 Ɵ       30
406       - 4 0 6
406       1 6 2 4
```
① diagram
① work
② answers ② labels

a) 406 miles
b) 1,624 miles

6.
③
P = 5 ft = 5 × 12 = 60 inches
```
        15
     4)60
        4
       20
```
① work
① answer
① label

⌐ 15 inches

7.
②
3/5 = .4   [12/20]   3·5 [15/20]
                        4·5

① work
① answer

12/20 + 15/20 = 27/20 = 1 7/20

⌐ 1 7/20

8.
①

To find the output,
multiply the input
by 5.

9.
③
20,260 = 20,000 ÷ 20

① work
① answer
① comma

⌐ 1,000

10.
②
120/270 ÷ 3/3 = 4/9

① Prob/work
① answer

⌐ 4/9

11. ②

$$\frac{3}{4} \bigcirc \frac{4}{3} = 1\frac{1}{3}$$

① Problem
① answer

$$\lfloor \angle$$

12. ③

10 ⟨② ⑤⟩   12 ⟨③ 4 ⟨② ③⟩⟩ $2^2 \cdot 3 \cdot 5$
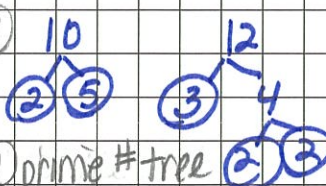
① prime # tree $4 \cdot 3 \cdot 5$
① prob/work $12 \cdot 5$
① answer

$$60 \qquad \lfloor 60$$

13. ④

② answers
② labels

a) $\overline{PR}$ or $\overline{RP}$

b) $\angle PMQ$ or $\angle QMP$

14. ③

441 ⟨3 ⟨③⟩ 147 ⟨⑦ 21 ⟨③ ⑦⟩⟩⟩
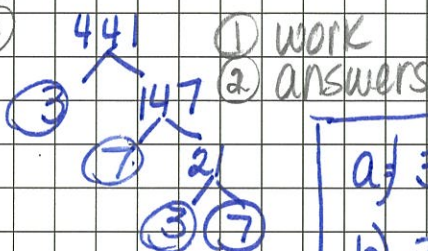
① work
② answers

$3 \cdot 7 = 21$

a) $3^2 \cdot 7^2$

b) 21

15. ③

① OP   ① answer
① work

$$7W = 5 \cdot 14$$

$$\frac{7W}{7} = \frac{70}{7}$$

$$\boxed{W = 10}$$

$$\begin{array}{c} 14 \\ \times 5 \\ \hline 70 \end{array} \quad \begin{array}{c} 10 \\ \times 7 \\ \hline 70 \end{array}$$

$$\lfloor W = 10$$

16. ③

$$516 + m = 653$$

$$\begin{array}{r} 6\cancel{5}\overset{4}{}\overset{13}{\cancel{3}} \\ -516 \\ \hline \boxed{137} \end{array} \qquad \begin{array}{r} 516 \\ +137 \\ \hline 653 \end{array}$$

① OP
① work
① answer

$$\lfloor m = 137$$

17. ③

$$81 - f = 42$$

$$\begin{array}{r} 7\,11 \\ \cancel{8}\cancel{1} \\ -42 \\ \hline \boxed{39} \end{array} \qquad \begin{array}{r} 7\,11 \\ \cancel{8}\cancel{1} \\ -39 \\ \hline 42 \end{array}$$

① OP
① work
① answer

$$\lfloor f = 39$$

18. ③

$$\frac{3}{4} - \frac{1}{3}$$

$$\frac{3 \cdot 3}{4 \cdot 3} = \frac{9}{12} \qquad \frac{1 \cdot 4}{3 \cdot 4} = \frac{4}{12}$$

$$\frac{9}{12} - \frac{4}{12} = \frac{5}{12}$$

① OP
① work
① answer

$$\lfloor \frac{5}{12}$$

19. ③

$$\left(\frac{\cancel{3}}{\cancel{4}} \cdot \frac{\cancel{2}}{\cancel{3}}\right) - \frac{1}{6}$$

$$\frac{1}{2} - \frac{1}{6}$$

$$\frac{3}{6} - \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

① OP
① work
① answer

$$\lfloor \frac{1}{3}$$

20. ③

$$2\frac{1}{2} \div 1\frac{3}{5}$$

$$\frac{5}{2} \div \frac{8}{5}$$

$$\frac{5}{2} \cdot \frac{5}{8} = \frac{25}{16} = 1\frac{9}{16}$$

① OP
① work
① answer

$$\lfloor 1\frac{9}{16}$$