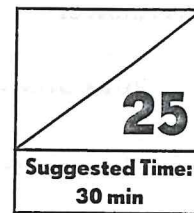




Estimation and Number Theory



Multiple Choice

(5 × 1 point = 5 points)

Fill in the circle next to the correct answer.

- Find the sum of 7,653 and 4,239. Round the answer to the nearest hundred.
(A) 11,000 (B) 11,800 (C) 11,890 (D) 11,900
- Which is the closest estimate of 78×31 ?
(A) 70×30 (B) 70×40 (C) 80×30 (D) 80×40
- What is the estimated quotient of $718 \div 6$?
(A) 72 (B) 80 (C) 90 (D) 120
- Which of the statements is incorrect?
(A) 2 is a common factor of 26 and 62.
(B) 3 is a common factor of 13 and 19.
(C) 13 is a common factor of 39 and 65.
(D) 6 is a common factor of 18 and 78.
- What is the sum of the first two multiples of 8?
(A) 8 (B) 16 (C) 24 (D) 32

1231

Short Answer

Write your answer in the space given.

6. Find the product of 489×7 . Estimate to check that your answer is reasonable.

Estimated multiplication problem and product:

489

X 7

7. What is 16×43 ?

Multiply using the area model.

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$16 \times 43 =$ _____

List factors of 12.

List factors of 15.

8. What is the greatest common factor of 12 and 15? _____

9. Find two prime numbers between 30 and 45 (there are four).

_____ and _____

30	31	32	33	34	35
36	37	38	39	40	41
42	43	44	45		

10. What is the least common multiple of 6 and 8? _____

Extended Response

(5 × 2 points = 10 points)

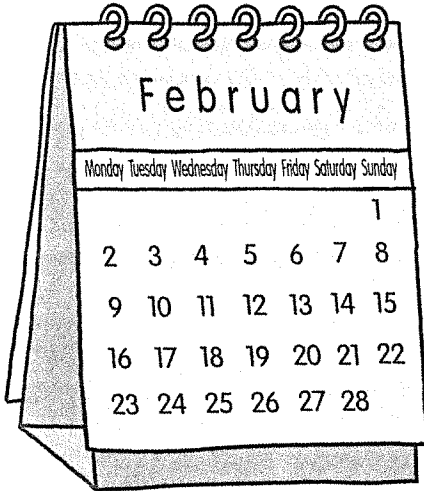
Solve. Show your work.

- 11.** Mr. Smith went to buy a refrigerator. He had \$346. The refrigerator cost \$783.
- a.** About how much more money does Mr. Smith need in order to buy the refrigerator?
Round your answer to the nearest hundred dollars.
- b.** After visiting the bank, Mr. Smith paid \$800 for the refrigerator. How much change did he receive?

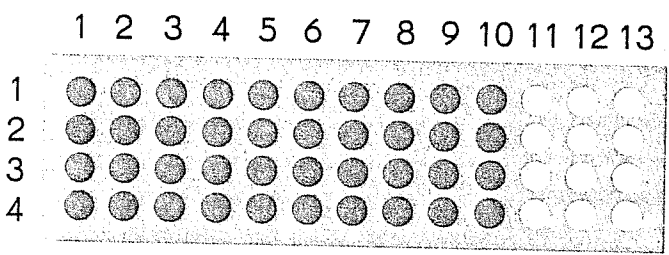
Name: _____

Date: _____

12. Tim goes swimming once a week.
He swims on the same day each week.
Amy goes swimming every other day.
They went swimming together on February 1st.
Use the calendar to find the next date that they will swim together.



13. Use the array model to write a multiplication sentence. Then find the product.



14. Draw an array model to show 5×16 . Then find the product.

15. Fill in the missing numbers in the area model. Then solve.

$14 \times 35 = ?$

