

Grade
3

1

Sophie has 32 carnations and 16 roses.

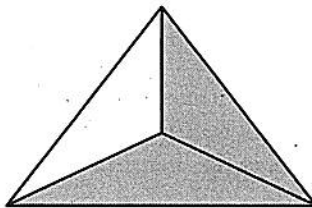
- She puts all the flowers into 8 vases.
- She puts the same number of flowers into each vase.

How many flowers does Sophie put into each vase?

- A 56
- B 20
- C 6
- D 2

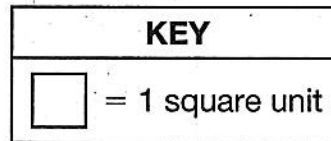
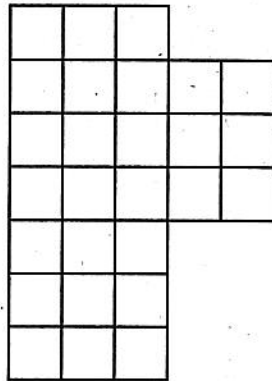
2

The model is divided into 3 equal sections. Which fraction is equivalent to the shaded part of the model?



- A $\frac{2}{6}$
- B $\frac{4}{6}$
- C $\frac{6}{2}$
- D $\frac{6}{4}$

- 3 What is the area of the figure below?



- A 21 square units
- B 23 square units
- C 27 square units
- D 29 square units

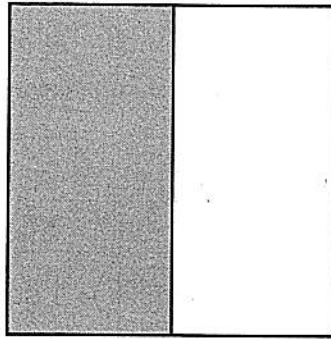
- 4 Which situation could the expression below describe?

$$28 \div 7$$

- A Lee finished 28 math problems before lunch. She finished 7 math problems after lunch.
- B Sharon bought 28 oranges. She gave 7 oranges to a neighbor.
- C A rose bush has 28 flowers. Ed counted 7 bees on the flowers.
- D Gary keeps 28 toy trucks on shelves. There are 7 trucks on each shelf.

5

A diagram of a classroom floor is shown below. The shaded part shows the portion of the floor with carpet.



What part of the floor's area has carpet?

- A $\frac{1}{2}$ the area of the floor
- B $\frac{1}{3}$ the area of the floor
- C $\frac{1}{4}$ the area of the floor
- D $\frac{1}{10}$ the area of the floor

6

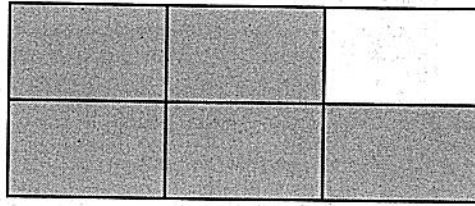
Alicia is making sandwiches for a party.

- She has 42 ounces of turkey.
- She puts 6 ounces of turkey on each sandwich.

How many sandwiches can Alicia make with the turkey she has?

- A 7
- B 8
- C 36
- D 252

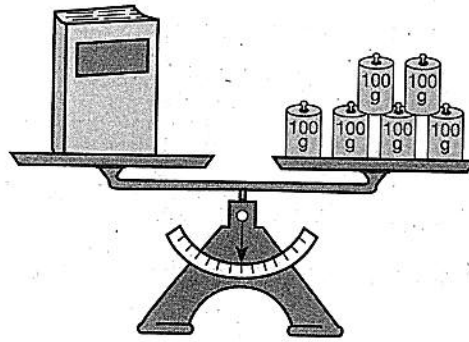
- 7 The model below shows $\frac{5}{6}$.



How much does each section of the model represent?

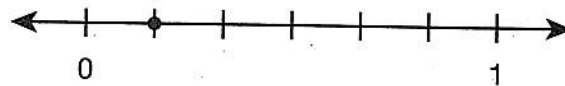
- A $\frac{1}{5}$
B $\frac{1}{6}$
C 1
D 5
- 8 Which equation could be solved to find the value of $32 \div 4$?
- A $4 + ? = 32$
B $4 \times ? = 32$
C $32 - 4 = ?$
D $32 \times ? = 4$

- 9 Lisbeth wants to find out the mass of her textbook.



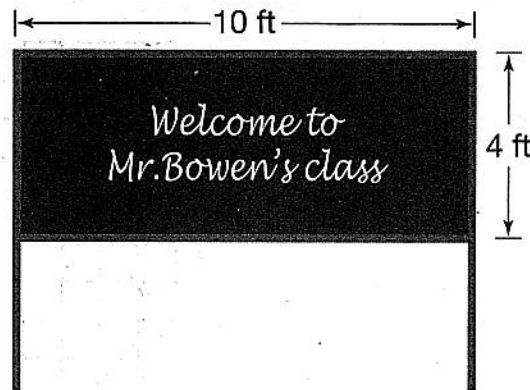
What is the mass of Lisbeth's textbook?

- A 6 grams
 - B 100 grams
 - C 600 grams
 - D 6 kilograms
- 10 Which expression does **not** have the same value as $7 \times (3 + 5)$?
- A $(7 \times 3) + (7 \times 5)$
 - B 7×8
 - C 8×7
 - D $7 \times 3 \times 5$
- 11 What fraction is shown on the number line below?



- A $\frac{1}{5}$
- B $\frac{1}{6}$
- C $\frac{2}{6}$
- D $\frac{5}{6}$

- 12 What is the area of the chalkboard?



- 13 Tim is playing a math game. He thinks of a number. Then he gives these clues about the number.

- When the number is rounded to the nearest hundred, the number is 400.
- When the number is rounded to the nearest ten, the number is 350.

Which could be the number that Tim is thinking of?

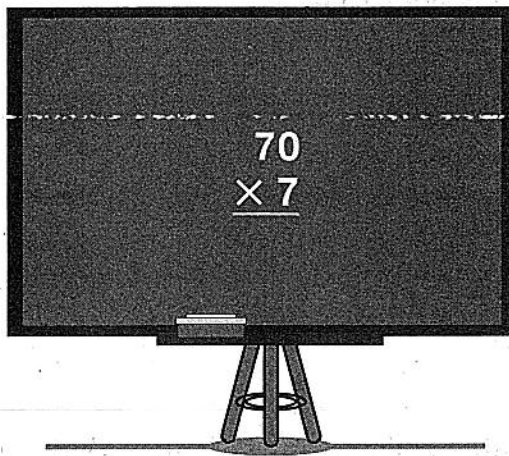
- A 357
B 355
C 352
D 345

20 What is the missing value?

$$4 \times \underline{\quad ? \quad} = 36$$

- A 12
- B 9
- C 8
- D 4

21 The chalkboard below shows a problem that Lucinda's teacher wrote.



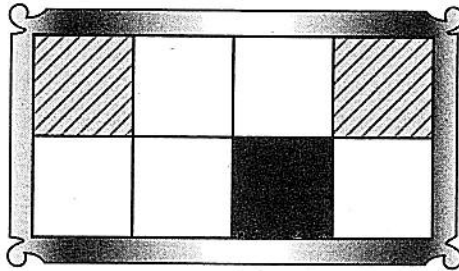
What is the answer to that problem?

- A 49
- B 77
- C 420
- D 490

22 Which product is **not** correct?

- A $5 \times 10 = 50$
- B $6 \times 4 = 24$
- C $3 \times 9 = 27$
- D $8 \times 6 = 42$

- 23 Deena's class is on a field trip to an art museum. She sees the geometric painting below.



What part of the painting is the black square?

- A $\frac{1}{2}$ the area of the painting
B $\frac{1}{4}$ the area of the painting
C $\frac{1}{6}$ the area of the painting
D $\frac{1}{8}$ the area of the painting
- 24 Glenn started studying at 12:23 P.M. He finished at 12:58 P.M.



How long did Glenn study?

- A 23 minutes
B 25 minutes
C 35 minutes
D 58 minutes

25 Which expression does **not** have the same value as 8×6 ?

- A $(5 \times 6) + (3 \times 6)$
- B $(4 + 4) \times 6$
- C $(5 \times 3) + 6$
- D 6×8

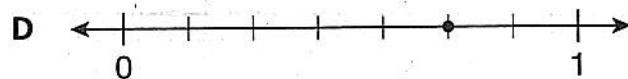
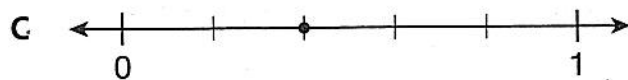
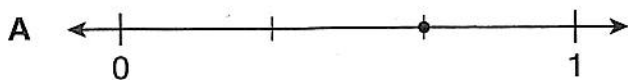
26 Dan makes 3 pizzas for a party.

- He cuts each pizza into 8 slices.
- Dan eats 2 slices.
- He serves the rest to his friends.

Which equations could be used to find s , the number of slices that Dan serves to his friends?

- A $3 \times 8 = 24$ and $24 \div 2 = s$
- B $3 + 8 = 11$ and $11 - 2 = s$
- C $8 - 2 = 6$ and $3 \times 6 = s$
- D $3 \times 8 = 24$ and $24 - 2 = s$

- 27 Antonio needs $\frac{2}{4}$ cup of flour for the recipe he is making. Which number line shows $\frac{2}{4}$?



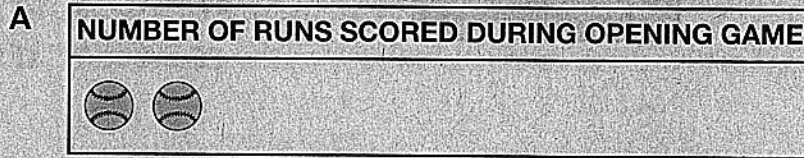
- 28 Which can be used to measure area?


- A gram
- B minute
- C liter
- D unit square

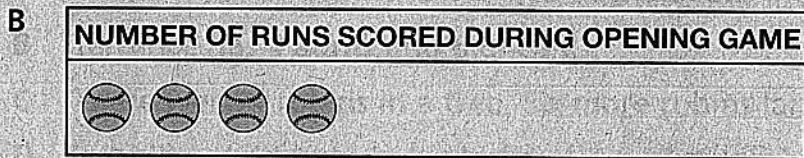
29


Matt keeps track of the number of runs his baseball team scores during each game. During the opening game of the season, Matt's team scored 8 runs. He shows his results in a pictograph.

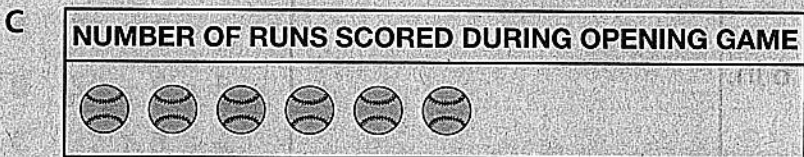
Which pictograph shows the data for Matt's team?




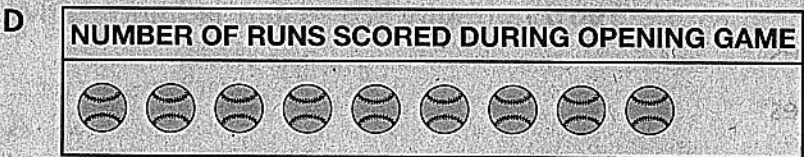
Key:  = 2 runs




Key:  = 2 runs



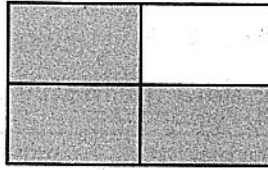
Key:  = 2 runs



Key:  = 2 runs

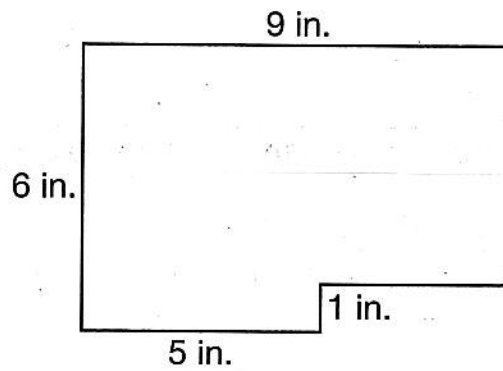
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- 30 What fraction is shown by the shaded part of the model?



- A $\frac{1}{3}$
- B $\frac{1}{4}$
- C $\frac{3}{4}$
- D $\frac{4}{1}$

- 31 Find the area of the figure.



[not drawn to scale]

- A 50 square inches
- B 60 square inches
- C 70 square inches
- D 80 square inches

32 Which equation could be solved to find the value of $35 \div 7$?

- A $35 + 7 = ?$
- B $35 \times 7 = ?$
- C $7 + ? = 35$
- D $7 \times ? = 35$

33 Which situation could the expression below represent?

$$4 \times 6$$

- A Lashonda makes 4 bracelets. She puts 6 beads on each bracelet.
- B Terrence has 4 aunts and 6 uncles.
- C There were 4 robins in a tree. Six more robins landed in the tree.
- D Robbie put 4 books in his locker. He took 6 books home.

34 Which quotient is **not** correct?

- A $28 \div 4 = 6$
- B $54 \div 6 = 9$
- C $32 \div 8 = 4$
- D $18 \div 9 = 2$

35 Which number makes the equation true?

$$\underline{\quad ? \quad} \div 10 = 5$$

- A 2
- B 10
- C 15
- D 50

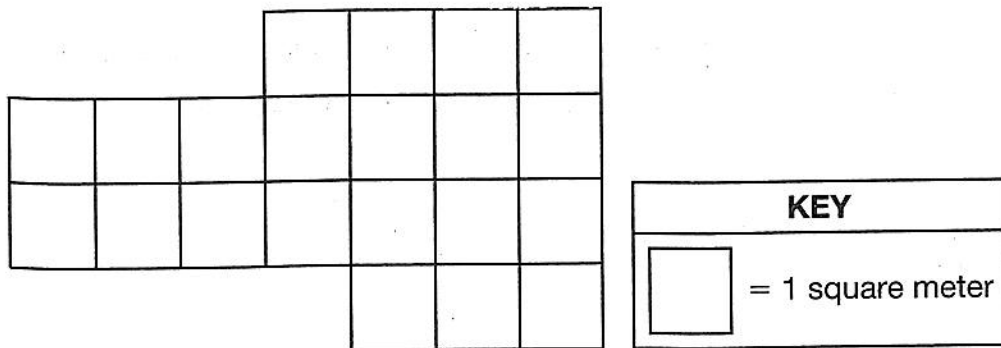
Go On

- 36 Which symbol makes the number sentence below true?

$$\frac{4}{6} \bigcirc \frac{2}{3}$$

- A =
- B <
- C -
- D >

- 37 Carlos is putting new tile on his kitchen floor.
The drawing below shows the kitchen floor.



What is the area of the kitchen floor?

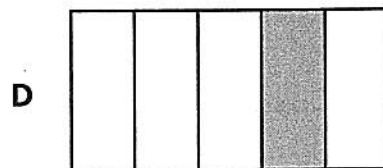
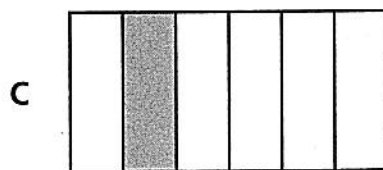
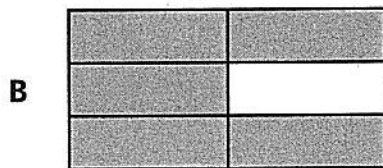
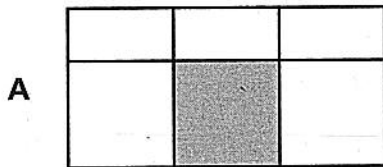
- A 22 square meters
- B 21 square meters
- C 20 square meters
- D 15 square meters

- 38** On Tuesday morning, 292 people walked through the main entrance to the City Hall. In the afternoon, 326 more people walked through the entrance. How many people in all walked through the main entrance to the City Hall on Tuesday?

- A 518
- B 608
- C 618
- D 628

- 39** James has been raking leaves in his backyard. Leaves still cover $\frac{1}{6}$ of the area of the backyard.

Which figure is shaded to show the part of the backyard that is still covered with leaves?



40 Henry gives his goat 6 liters of water each day. How much water does Henry give the goat in 7 days?

- A 42 liters
- B 35 liters
- C 30 liters
- D 13 liters

41 The table below shows the number of people who have tickets to a concert on Saturday.

CONCERT TICKET HOLDERS

Age Group	Number
Adults	421
Teens	278
Children	239

Justin said that the teens and children together have 96 more tickets than the adults.

Which number sentences could help you decide if Justin's statement is reasonable?

- A Add $200 + 200$. Then subtract $400 - 400$.
- B Add $300 + 200$. Then subtract $500 - 400$.
- C Add $300 + 200$. Then subtract $500 - 300$.
- D Add $400 + 200$. Then subtract $600 - 300$.

- 42** Kristen fills 9 bags with granola bars that she made. She puts 7 granola bars in each bag.

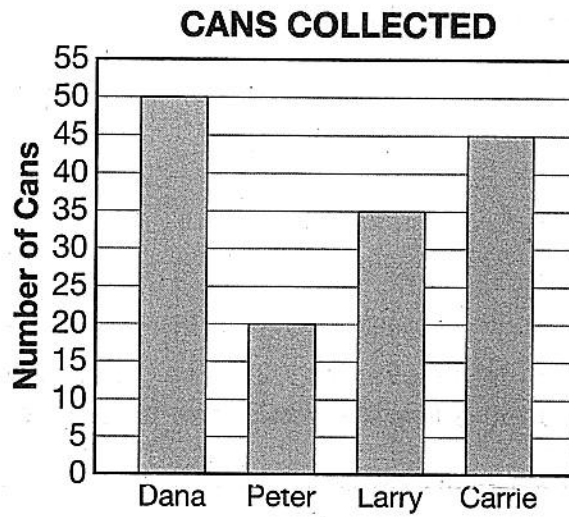
How many granola bars did Kristen make?

- A 16
- B 54
- C 56
- D 63

- 43** Mr. Shaw put a pizza in his oven at 7:25. The pizza needs to cook for 19 minutes. When should Mr. Shaw take the pizza out of the oven?

- A 7:06
- B 7:34
- C 7:44
- D 7:46

- 44 Saturday is spring clean up at the park. Carrie and her friends keep track of the number of cans they pick up.

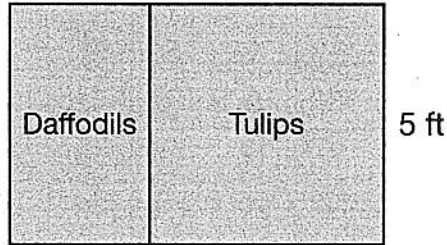


How many more cans does Carrie pick up than Peter?

- A 45
B 30
C 25
D 10
- 45 What is 382 rounded to the nearest 100?
A 300
B 380
C 390
D 400

- 46** Tasha has a flower garden with two sections—one for daffodils and the other for tulips.

TASHA'S FLOWER GARDEN



[not drawn to scale]

The total area of the garden is 40 square feet. Which could be the lengths of the daffodil section and the tulip section?

- A daffodil section: 2 feet
tulip section: 5 feet
- B daffodil section: 2 feet
tulip section: 7 feet
- C daffodil section: 3 feet
tulip section: 5 feet
- D daffodil section: 30 feet
tulip section: 10 feet

- 47** Van is looking for patterns in the multiplication table shown below.

x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Which pattern could Van have found in the table?

- A The product of two even numbers is an odd number.
- B The product of two odd numbers is an even number.
- C The product of an even number and an odd number may be an even number or an odd number.
- D The product of an even number and an odd number is an even number.

- 48** Lori has 27 tulip bulbs to plant. Lori wrote the expression below to help solve a problem about the tulip bulbs.

$$27 \div 3$$

Which problem could Lori be solving?

- A** Lori wants to plant 3 bulbs in each flower pot.
How many flower pots does Lori need?
- B** Lori buys 3 more tulip bulbs.
How many tulip bulbs does Lori have to plant?
- C** Lori plants 3 bulbs before lunch.
How many tulip bulbs does Lori have to plant after lunch?
- D** The total mass of the tulip bulbs is 3 pounds.
What is the mass of one bulb?

49 Hector wrote the expression shown below to represent a word problem.

$$21 \div 3$$

Write a word problem that Hector could be trying to solve.

Solve your problem.

Show your work.

Answer _____

50 Use the distributive property to find the product.

$$7 \times 13 = \underline{\quad ? \quad}$$

Answer _____

51 Marcus wants to mail some baseball cards to his sister.

- Each card weighs 8 grams.
- Marcus has an envelope that can hold 75 grams.

How many cards can Marcus send?

Show your work.

Answer _____ cards

- 52 The table below shows the activities that Willa does each week for exercise.

WILLA'S WEEKLY EXERCISE

Activity	Time
Biking	3 days for 40 minutes each day
Hiking	1 day for 90 minutes
Swimming	5 days for 30 minutes each day

Write a word problem about Willa's exercise.

Include at least two of Willa's activities.

Solve your problem.

Show your work.

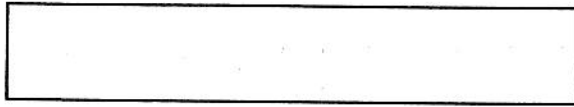
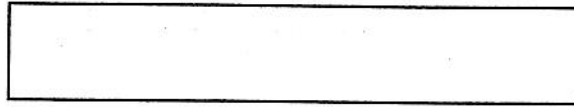
Answer _____

53

Malik and Robert each have a piece of string that is of the same length.

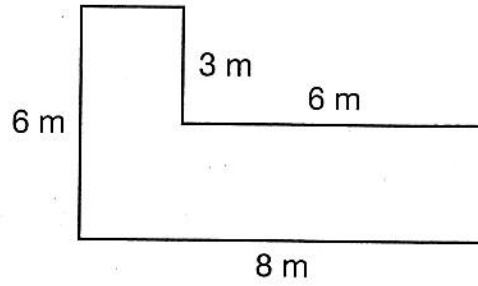
- Malik cuts $\frac{2}{4}$ off his string and ties it to a balloon.
- Robert cuts $\frac{2}{3}$ off his string and ties it to a balloon.

The models below represent the strings before they were cut. Shade each model to show the amount that is cut off.



Whose balloon has the longest piece of string? Explain.

54 Lou drew a diagram of his backyard, as shown below.



[not drawn to scale]

Lou calculated the area of his backyard, as shown below.

$$\begin{array}{r} 6 \times 3 = 18 \text{ square meters} \quad 18 \\ 8 \times 6 = 48 \text{ square meters} \quad \underline{+48} \\ \hline 66 \text{ square meters} \end{array}$$

What mistake(s) did Lou make?

What is the area of Lou's backyard?

Show your work.

Answer _____ square meters

55

Pat wrote the expressions below.

$$1 \times 0 \quad 2 \times 1 \quad 3 \times 2 \quad 4 \times 3 \quad 5 \times 4 \quad 6 \times 5$$

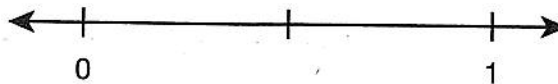
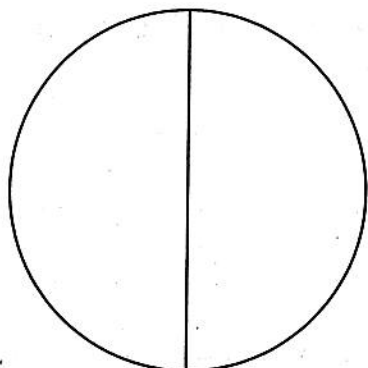
Find each product. Describe a pattern in the factors and the products.

What is the tenth expression and the product in the pattern?

Show your work.

Answer _____

- 56 Draw and shade the model below showing the fraction $\frac{5}{8}$. Then draw a point on the number line to show the fraction $\frac{5}{8}$.



Describe how the model for $\frac{5}{8}$ is similar to the $\frac{5}{8}$ shown on the number line.

STOP

