

Math

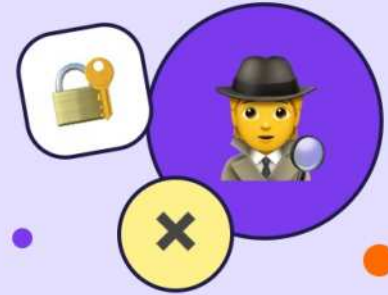
Grade 3

Secret code math: crack the spy message

Solve multiplication facts to unlock the code and reveal the secret word.



I can multiply within 100 and use a code key.



1

✖ Warm-up facts

Multiply the number in each row by the number at the top.

×	2	5	10
3			
4			
6			

2 Crack the code

Code key: A = 12, H = 40, M = 18, R = 27, S = 21, T = 36. Solve each fact, then write its letter.



1. $6 \times 3 =$ _____ letter: _____

2. $3 \times 4 =$ _____ letter: _____

3. $4 \times 9 =$ _____ letter: _____

4. $5 \times 8 =$ _____ letter: _____

5. The secret word is _____.

3 Which fact is bigger?

Write $>$, $<$ or $=$ in each circle.

6×4



5×5

7×3



3×7

9×2



4×4

8×5



6×7

4 Spy problems

Circle the right answer.

1. Agent Kay finds 7 envelopes with 4 clues in each. How many clues?

A 24

B 28

C 32

2. A code number is 9×6 . What is the number?

A 54

B 56

C 45

3. Which fact has the same answer as 8×3 ?

A 4×6

B 5×5

C 2×11

5 Fast facts

Write the answer to each fact.

1. $7 \times 6 =$ _____

2. $8 \times 4 =$ _____

3. $9 \times 3 =$ _____

4. $6 \times 6 =$ _____

5. $5 \times 7 =$ _____

6. $2 \times 9 =$ _____

7. $10 \times 8 =$ _____

8. $7 \times 7 =$ _____

6 Match the code

Draw a line from each fact to its answer.

☐ 3×8 ●

☐ 6×7 ●

☐ 9×5 ●

☐ 4×7 ●

☐ 8×8 ●

● A. 45

● B. 24

● C. 64

● D. 42

● E. 28

7 Spy check

A spy wrote these facts. Circle True or False.

1. $6 \times 8 = 48$

True

False

2. $7 \times 9 = 56$

True

False

3. $4 \times 9 = 36$

True

False

4. $8 \times 7 = 54$

True

False

5. $3 \times 0 = 0$

True

False

6. $5 \times 9 = 45$

True

False

8 Mission problems

Read each problem and circle the right answer.

1. A spy has 24 clues and puts 6 clues in each folder. How many folders does she need?

A 3

B 4

C 6

2. Agent Max decodes 9 messages a day for 5 days. How many messages is that?

A 45

B 40

C 54

3. A spy badge costs \$6. How much do 7 badges cost?

A \$36

B \$48

C \$42

4. The door code is $3 \times 3 \times 2$. What is the code?

A 12

B 18

C 9

9



Make your own code

Write a secret word using only the letters A, H, M, R, S and T. Write a multiplication fact for each letter so a friend can crack it.

How did it go?



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Math

Grade 3

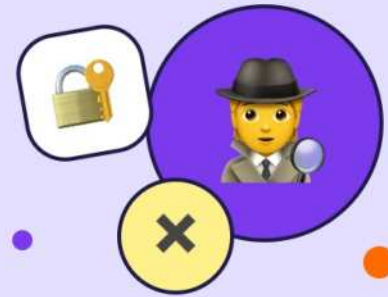
Answer key

Secret code math: crack the spy message

Solve multiplication facts to unlock the code and reveal the secret word.



I can multiply within 100 and use a code key.



1

✖ Warm-up facts

Multiply the number in each row by the number at the top.

×	2	5	10
3	6	15	30
4	8	20	40
6	12	30	60

2 Crack the code

Code key: A = 12, H = 40, M = 18, R = 27, S = 21, T = 36. Solve each fact, then write its letter.



1. $6 \times 3 =$ 18 letter: M

2. $3 \times 4 =$ 12 letter: A

3. $4 \times 9 =$ 36 letter: T

4. $5 \times 8 =$ 40 letter: H

5. The secret word is MATH.

3 Which fact is bigger?

Write $>$, $<$ or $=$ in each circle.

6×4

$<$

5×5

7×3

$=$

3×7

9×2

$>$

4×4

8×5

$<$

6×7

4 Spy problems

Circle the right answer.

1. Agent Kay finds 7 envelopes with 4 clues in each. How many clues?

A 24

B 28

C 32

2. A code number is 9×6 . What is the number?

A 54

B 56

C 45

3. Which fact has the same answer as 8×3 ?

A 4×6

B 5×5

C 2×11

5 Fast facts

Write the answer to each fact.

1. $7 \times 6 =$ 42

2. $8 \times 4 =$ 32

3. $9 \times 3 =$ 27

4. $6 \times 6 =$ 36

5. $5 \times 7 =$ 35

6. $2 \times 9 =$ 18

7. $10 \times 8 =$ 80

8. $7 \times 7 =$ 49

6 Match the code

Draw a line from each fact to its answer.

B 3×8 ●

D 6×7 ●

A 9×5 ●

E 4×7 ●

C 8×8 ●

● **A.** 45

● **B.** 24

● **C.** 64

● **D.** 42

● **E.** 28

7 Spy check

A spy wrote these facts. Circle True or False.

1. $6 \times 8 = 48$

True

False

2. $7 \times 9 = 56$

True

False

3. $4 \times 9 = 36$

True

False

4. $8 \times 7 = 54$

True

False

5. $3 \times 0 = 0$

True

False

6. $5 \times 9 = 45$

True

False

8 Mission problems

Read each problem and circle the right answer.

1. A spy has 24 clues and puts 6 clues in each folder. How many folders does she need?

A 3

B 4

C 6

2. Agent Max decodes 9 messages a day for 5 days. How many messages is that?

A 45

B 40

C 54

3. A spy badge costs \$6. How much do 7 badges cost?

A \$36

B \$48

C \$42

4. The door code is $3 \times 3 \times 2$. What is the code?

A 12

B 18

C 9

9



Make your own code

Write a secret word using only the letters A, H, M, R, S and T. Write a multiplication fact for each letter so a friend can crack it.

Answers vary. Example: HAT = 5×8 , 2×6 , 6×6 . (S = 3×7 , R = 3×9 , M = 2×9 .)

How did it go?



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