Name _____ Date _____



Eight Nights of Hanukkah

Each night has one more candle, and the helper. Fill in the table.

Night	Menorah	Candles lit, with the helper	Candles used so far	
1		2	2	Example
2		3		
3			9	
4		5		
5				
6		7		
7				
8				

1. How many candles are lit on the eighth night? _____ candles

2. How many candles are used for all eight nights? _____ candles

3. How many of those are not helper candles? _____ candles

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Name _____ Date _____



Eight Nights of Hanukkah

Follow the rule for each night. Find the missing numbers.

1. The candles lit each night, with the helper candle. Example

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
2	3	4	5	6	7	8	9

Rule: + 1 each night

2. The Levy family fries **6** latkes on night **1**, then **4** more each night.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
6							

Rule: + 4 each night

3. Noa saves gelt in a jar. Find the rule, then finish the nights.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
7	13	19					

Rule: _____

4. A bakery makes **12** jelly doughnuts on night **1**, then **9** more each night.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
12							

Rule: + 9 each night

5. Ari doubles his gelt each night. He starts with **1**.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
1							

Rule: × 2 each night

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Name _____ Date _____



Eight Nights of Hanukkah

A box has 44 candles. Multiply in two parts, then add.

1. Example



2 boxes of 44 candles

$2 \times 44 = 2 \times 40 + 2 \times 4$

	40	4
2	80	8

In all: 88 candles

2.



3 boxes of 44 candles

$3 \times 44 = 3 \times 40 + 3 \times 4$

	40	4
3		

In all: _____ candles

3.



5 boxes of 44 candles

$5 \times 44 = 5 \times 40 + 5 \times 4$

	40	4
5		

In all: _____ candles

4.



6 boxes of 44 candles

$6 \times 44 = 6 \times 40 + 6 \times 4$

	40	4
6		

In all: _____ candles

5.



8 boxes of 44 candles

$8 \times 44 = 8 \times 40 + 8 \times 4$

	40	4
8		

In all: _____ candles

6.



9 boxes of 44 candles

$9 \times 44 = 9 \times 40 + 9 \times 4$

	40	4
9		

In all: _____ candles

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Name _____ Date _____



Eight Nights of Hanukkah

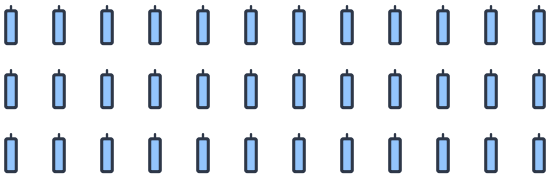
36 candles in equal rows. Write a multiplication for each array.

1. Example



4 × 9 = 36

2.



□ × □ = 36

Every array of 36 candles:

1 × 36 = 36

□ × □ = 36

□ × □ = 36

□ × □ = 36

□ × □ = 36

Every array of 44 candles:

□ × □ = 44

□ × □ = 44

□ × □ = 44

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Name _____ Date _____



Eight Nights of Hanukkah

Solve each problem. Show your work.

1. A box has **44** candles. The Cohen family used candles for the first **5** nights, with the helper each night. How many candles are left in the box?

2 + 3 + 4 + 5 + 6 = 20
44 – 20 = 24

Example **24** candles

2. Dana fries **6** latkes in each pan. She fills the pan **7** times. Her family eats **29** latkes. How many latkes are left?

_____ latkes

3. A bakery puts **8** jelly doughnuts on each tray. It fills **9** trays and sells **45** doughnuts. How many doughnuts are left?

_____ doughnuts

4. Four friends share **3** bags of gelt equally. Each bag has **12** coins. How many coins does each friend get?

_____ coins

5. A school needs one box of **44** candles for each of **7** classrooms. It already has **50** candles. How many more candles does it need?

_____ candles

6. Eli spins a dreidel **5** times each night for all eight nights. Gimel lands up **9** times. How many of his spins were not Gimel?

_____ spins

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Name _____ Date _____



Eight Nights of Hanukkah

Each night has one more candle, and the helper. Fill in the table.

Night	Menorah	Candles lit, with the helper	Candles used so far	
1		2	2	Example
2		3		
3			9	
4		5		
5				
6		7		
7				
8				

1. How many candles are lit on the eighth night? _____ candles

2. How many candles are used for all eight nights? _____ candles

3. How many of those are not helper candles? _____ candles

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Name _____ Date _____



Eight Nights of Hanukkah

Follow the rule for each night. Find the missing numbers.

1. The candles lit each night, with the helper candle. Example

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
2	3	4	5	6	7	8	9

Rule: + 1 each night

2. The Levy family fries **6** latkes on night **1**, then **4** more each night.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
6							

Rule: + 4 each night

3. Noa saves gelt in a jar. Find the rule, then finish the nights.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
7	13	19					

Rule: _____

4. A bakery makes **12** jelly doughnuts on night **1**, then **9** more each night.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
12							

Rule: + 9 each night

5. Ari doubles his gelt each night. He starts with **1**.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
1							

Rule: × 2 each night

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Name _____ Date _____



Eight Nights of Hanukkah

A box has 44 candles. Multiply in two parts, then add.

1. Example



2 boxes of 44 candles

$2 \times 44 = 2 \times 40 + 2 \times 4$

	40	4
2	80	8

In all: 88 candles

2.



3 boxes of 44 candles

$3 \times 44 = 3 \times 40 + 3 \times 4$

	40	4
3		

In all: _____ candles

3.



5 boxes of 44 candles

$5 \times 44 = 5 \times 40 + 5 \times 4$

	40	4
5		

In all: _____ candles

4.



6 boxes of 44 candles

$6 \times 44 = 6 \times 40 + 6 \times 4$

	40	4
6		

In all: _____ candles

5.



8 boxes of 44 candles

$8 \times 44 = 8 \times 40 + 8 \times 4$

	40	4
8		

In all: _____ candles

6.



9 boxes of 44 candles

$9 \times 44 = 9 \times 40 + 9 \times 4$

	40	4
9		

In all: _____ candles

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Name _____ Date _____



Eight Nights of Hanukkah

36 candles in equal rows. Write a multiplication for each array.

1.

Example



4 × 9 = 36

2.



□ × □ = 36

Every array of 36 candles:

1 × 36 = 36

□ × □ = 36

□ × □ = 36

□ × □ = 36

□ × □ = 36

Every array of 44 candles:

□ × □ = 44

□ × □ = 44

□ × □ = 44

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Name _____ Date _____



Eight Nights of Hanukkah

Solve each problem. Show your work.

1. A box has **44** candles. The Cohen family used candles for the first **5** nights, with the helper each night. How many candles are left in the box?

2 + 3 + 4 + 5 + 6 = 20
44 – 20 = 24

Example **24** candles

2. Dana fries **6** latkes in each pan. She fills the pan **7** times. Her family eats **29** latkes. How many latkes are left?

_____ latkes

3. A bakery puts **8** jelly doughnuts on each tray. It fills **9** trays and sells **45** doughnuts. How many doughnuts are left?

_____ doughnuts

4. Four friends share **3** bags of gelt equally. Each bag has **12** coins. How many coins does each friend get?

_____ coins

5. A school needs one box of **44** candles for each of **7** classrooms. It already has **50** candles. How many more candles does it need?

_____ candles

6. Eli spins a dreidel **5** times each night for all eight nights. Gimel lands up **9** times. How many of his spins were not Gimel?

_____ spins

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Eight Nights of Hanukkah

Each night has one more candle, and the helper. Fill in the table.

Night	Menorah	Candles lit, with the helper	Candles used so far	
1		2	2	Example
2		3	5	
3		4	9	
4		5	14	
5		6	20	
6		7	27	
7		8	35	
8		9	44	

1. How many candles are lit on the eighth night? 9 candles

2. How many candles are used for all eight nights? 44 candles

3. How many of those are not helper candles? 36 candles

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Eight Nights of Hanukkah

Follow the rule for each night. Find the missing numbers.

1. The candles lit each night, with the helper candle. Example

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
2	3	4	5	6	7	8	9

Rule: + 1 each night

2. The Levy family fries **6** latkes on night **1**, then **4** more each night.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
6	10	14	18	22	26	30	34

Rule: + 4 each night

3. Noa saves gelt in a jar. Find the rule, then finish the nights.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
7	13	19	25	31	37	43	49

Rule: + 6

4. A bakery makes **12** jelly doughnuts on night **1**, then **9** more each night.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
12	21	30	39	48	57	66	75

Rule: + 9 each night

5. Ari doubles his gelt each night. He starts with **1**.

Night 1	Night 2	Night 3	Night 4	Night 5	Night 6	Night 7	Night 8
1	2	4	8	16	32	64	128

Rule: × 2 each night

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Eight Nights of Hanukkah

A box has 44 candles. Multiply in two parts, then add.

1. Example



2 boxes of 44 candles

$2 \times 44 = 2 \times 40 + 2 \times 4$

	40	4
2	80	8

In all: 88 candles

2.



3 boxes of 44 candles

$3 \times 44 = 3 \times 40 + 3 \times 4$

	40	4
3	120	12

In all: 132 candles

3.



5 boxes of 44 candles

$5 \times 44 = 5 \times 40 + 5 \times 4$

	40	4
5	200	20

In all: 220 candles

4.



6 boxes of 44 candles

$6 \times 44 = 6 \times 40 + 6 \times 4$

	40	4
6	240	24

In all: 264 candles

5.



8 boxes of 44 candles

$8 \times 44 = 8 \times 40 + 8 \times 4$

	40	4
8	320	32

In all: 352 candles

6.



9 boxes of 44 candles

$9 \times 44 = 9 \times 40 + 9 \times 4$

	40	4
9	360	36

In all: 396 candles

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Eight Nights of Hanukkah

36 candles in equal rows. Write a multiplication for each array.

1. Example



4 × 9 = 36

2.



3 × 12 = 36

Every array of 36 candles:

1 × 36 = 36
2 × 18 = 36
3 × 12 = 36
4 × 9 = 36
6 × 6 = 36

in any order

Every array of 44 candles:

1 × 44 = 44
2 × 22 = 44
4 × 11 = 44

in any order

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Eight Nights of Hanukkah

Solve each problem. Show your work.

1. A box has **44** candles. The Cohen family used candles for the first **5** nights, with the helper each night. How many candles are left in the box?

2 + 3 + 4 + 5 + 6 = 20
44 – 20 = 24

Example **24** candles

2. Dana fries **6** latkes in each pan. She fills the pan **7** times. Her family eats **29** latkes. How many latkes are left?

13 latkes

3. A bakery puts **8** jelly doughnuts on each tray. It fills **9** trays and sells **45** doughnuts. How many doughnuts are left?

27 doughnuts

4. Four friends share **3** bags of gelt equally. Each bag has **12** coins. How many coins does each friend get?

9 coins

5. A school needs one box of **44** candles for each of **7** classrooms. It already has **50** candles. How many more candles does it need?

258 candles

6. Eli spins a dreidel **5** times each night for all eight nights. Gimel lands up **9** times. How many of his spins were not Gimel?

31 spins

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