

NC6–1

1 HOW DO SKIERS DRESS IN THE MORNINGS?

540 601 6148 4681 5042 540 601 6148 4681 5042 305 006 **A** 5432 48 402 8016

Find the number above that matches the words below.

Write the letter on the line above the answer. The first one has been done.

A 5 thousands, 4 hundreds, 3 tens and 2 ones = **5432** **T** 8 thousands, 1 ten and 6 ones = _____**E** 6 thousands, 1 hundred, 4 tens and 8 ones = _____ **Y** 5 thousands, 4 tens and 2 ones = _____**R** 4 thousands, 6 hundreds, 8 tens and 1 one = _____**V** 5 hundreds of thousands, 4 tens of thousands, 6 hundreds and 1 one = _____**F** 3 hundreds of thousands, 5 thousands and 6 ones = _____**S** 4 tens of thousands, 8 thousands, 4 hundreds and 2 ones = _____

NC6–1

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NC6–2

2 Fill in the gaps.

- a** 2786 is the same as 2 thousands, 7 _____, 8 _____ and 6 _____
and is the same as 27 _____, 8 _____ and 6 _____
and is the same as 278 _____ and 6 _____
- b** 5680 is the same as _____ thousands, _____ hundreds and _____ tens
and is the same as _____ hundreds, and _____ tens
and is the same as _____ tens
- c** 86,034 is the same as _____ ten thousands, _____ tens and _____ ones
and is the same as _____ hundreds, _____ tens and _____ ones
and is the same as _____ tens and _____ ones
- d** 52,872 is the same as _____ ten thousands, _____ thousands, _____ hundreds,
_____ tens and _____ ones
- e** 572,804 is the same as _____ hundred thousands, _____ hundreds and _____ ones

NC6–2

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and is the same as 27 _____, 8 _____ and 6 _____
and is the same as 278 _____ and 6 _____
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_____ tens and _____ ones
- e** 572,804 is the same as _____ hundred thousands, _____ hundreds and _____ ones

NC6–6

2 Shade the factors of

a 12 **b** 30**c** 56 **d** 13

Share your pattern with a partner.

Did you both get the same pattern?

0	1	9	16	2	17
21	23	3	4	19	24
5	6			7	8
55	10	12	13	14	35
11	25	15	28	45	48
112	39	30	56	60	36

NC6–6

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112	39	30	56	60	36

NC6–6

- 4 Colour any factors of these numbers.
Use a different square each time.

a 12 b 24

c 32 d 72

e 64 f 81

g 27

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

NC6–6

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Use a different square each time.

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

NC6-7

- 2 Shade all of the square numbers.
What shape have you made?

72	58	1	3	2
26	96	16	7	8
81	36	4	25	9
24	32	49	38	21
70	61	64	40	17



NC6-7

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NC6–8

3

<u>3.2</u>	<u>17.0</u>	<u>54.6</u>	<u>6.3</u>	<u>10.0</u>	<u>3.2</u>	<u>11.7</u>	<u>18.8</u>				
<u>11.8</u>	<u>15.9</u>	<u>11.7</u>	<u>18.9</u>	<u>54.6</u>	<u>11.8</u>	<u>11.7</u>	<u>18.9</u>	<u>15.9</u>			
<u>6.3</u>	<u>17.1</u>	<u>3.2</u>	<u>3.1</u>	<u>55.0</u>	<u>18.8</u>	<u>18.9</u>	<u>10.0</u>	<u>11.7</u>	P <u>6.4</u>	<u>54.6</u>	<u>18.8</u>

Round each number to the nearest tenth (1 decimal place). Write the letter beside each question above its answer in the puzzle. The first one is done for you.

P 6.35 = <u>6.4</u>	I 11.746 = _____	R 10.039 = _____	B 6.328 = _____
C 3.069 = _____	L 17.074 = _____	Z 17.008 = _____	E 54.55 = _____
T 18.93 = _____	W 11.788 = _____	S 18.77 = _____	K 54.98 = _____
H 15.851 = _____	A 3.169 = _____		

NC6–8

3

<u>3.2</u>	<u>17.0</u>	<u>54.6</u>	<u>6.3</u>	<u>10.0</u>	<u>3.2</u>	<u>11.7</u>	<u>18.8</u>				
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NC6–11

- 1 a If $4 \times 6 = 24$, fill in the gaps.

$4 \times 60 = \underline{\hspace{2cm}}$

$4 \times 600 = \underline{\hspace{2cm}}$

$40 \times 60 = \underline{\hspace{2cm}}$

Write a family of facts for each one.

- b If $8 \times 6 = 48$, fill in the gaps.

$8 \times 60 = \underline{\hspace{2cm}}$

$8 \times 6000 = \underline{\hspace{2cm}}$

$80 \times 60 = \underline{\hspace{2cm}}$

- c If $9 \times 0 = 0$, fill in the gaps.

$90 \times 0 = \underline{\hspace{2cm}}$

$9000 \times 0 = \underline{\hspace{2cm}}$

$900\,000 \times 0 = \underline{\hspace{2cm}}$

NC6–11

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NC6–12

3 Fill in this crossnumber.

Across

Down

1 341×38

1 59×19

3 235×21

2 211×45

5 133×18

3 128×35

7 769×89

4 447×86

8 15×11

6 118×31

9 11×23

10 131×40

12 33×19

11 28×13

14 99×27

12 102×62

15 266×34

13 214×33

16 43×22

15 12×8

17 103×14

1		2				3		4	
5	6				7				
8									
			9	10	11		12		13
				14					
		15							
16						17			

NC6–12

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1		2				3		4	
5	6				7				
8									
			9	10	11		12		13
				14					
		15							
16						17			

NC6–14

13

I

$\frac{\quad}{2592}$ $\frac{\quad}{49\ 708}$ $\frac{\quad}{22\ 176}$ $\frac{\quad}{2592}$ $\frac{\quad}{29\ 631}$ $\frac{\quad}{19\ 812}$ $\frac{\quad}{49\ 349}$ $\frac{\quad}{36\ 946}$ $\frac{\quad}{10\ 206}$ $\frac{\quad}{13\ 771}$ $\frac{\quad}{10\ 206}$ **$\frac{\quad}{1976}$** $\frac{\quad}{45\ 479}$ $\frac{\quad}{36\ 594}$ $\frac{\quad}{37\ 565}$

$\frac{\quad}{36\ 946}$ $\frac{\quad}{19\ 812}$ $\frac{\quad}{22\ 176}$ $\frac{\quad}{74\ 493}$ $\frac{\quad}{23\ 664}$ $\frac{\quad}{36\ 594}$ $\frac{\quad}{49\ 349}$ $\frac{\quad}{74\ 493}$ $\frac{\quad}{13\ 771}$ $-$ $\frac{\quad}{36\ 946}$ $\frac{\quad}{19\ 812}$ $\frac{\quad}{35\ 770}$ $\frac{\quad}{22\ 176}$

$\frac{\quad}{68\ 064}$ $\frac{\quad}{19\ 812}$ $\frac{\quad}{35\ 770}$ $\frac{\quad}{22\ 176}$ $\frac{\quad}{37\ 565}$

Write the letter beside each question above its answer.

I $52 \times 38 = 1976$ **A** $96 \times 27 = \underline{\hspace{2cm}}$ **O** $381 \times 52 = \underline{\hspace{2cm}}$ **U** $730 \times 49 = \underline{\hspace{2cm}}$

N $809 \times 61 = \underline{\hspace{2cm}}$ **G** $357 \times 83 = \underline{\hspace{2cm}}$ **E** $642 \times 57 = \underline{\hspace{2cm}}$ **W** $986 \times 24 = \underline{\hspace{2cm}}$

V $511 \times 89 = \underline{\hspace{2cm}}$ **S** $683 \times 55 = \underline{\hspace{2cm}}$ **H** $709 \times 96 = \underline{\hspace{2cm}}$ **T** $837 \times 89 = \underline{\hspace{2cm}}$

Y $47 \times 293 = \underline{\hspace{2cm}}$ **L** $21 \times 486 = \underline{\hspace{2cm}}$ **R** $72 \times 308 = \underline{\hspace{2cm}}$ **D** $68 \times 731 = \underline{\hspace{2cm}}$

F $58 \times 637 = \underline{\hspace{2cm}}$

NC6–14

13

I

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NC6–20

Puzzle

Put $+$, $\times$, $-$ or $\div$ in the empty boxes to make each line true.

The first row is done.

6	+	3	$\times$	2	=	12
2		5		6	=	4
1		3		2	=	2
=		=		=		=
8		12		6	=	10

NC6–20

Puzzle

Put $+$, $\times$, $-$ or $\div$ in the empty boxes to make each line true.

The first row is done.

6	+	3	$\times$	2	=	12
2		5		6	=	4
1		3		2	=	2
=		=		=		=
8		12		6	=	10

NC6–20

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8		12		6	=	10

NC6–20

Puzzle

Put $+$, $\times$, $-$ or $\div$ in the empty boxes to make each line true.

The first row is done.

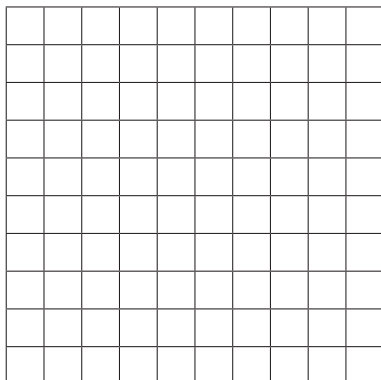
6	+	3	$\times$	2	=	12
2		5		6	=	4
1		3		2	=	2
=		=		=		=
8		12		6	=	10

NC6–23

Practical – Hundreds squares

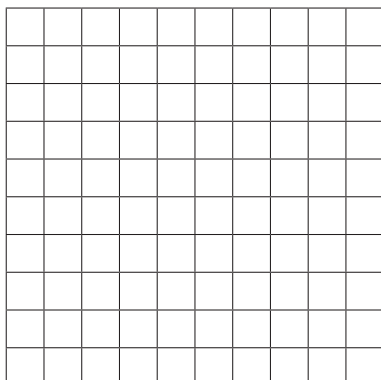
1

Shade $\frac{1}{2}$ of this
hundreds square.What percentage
of the hundreds
square have
you shaded?



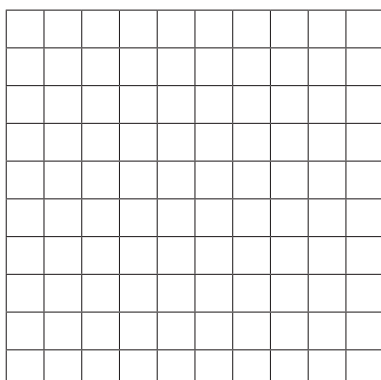
2

Shade $\frac{10}{100}$ of this
hundreds square.What percentage
of the hundreds
square have
you shaded?



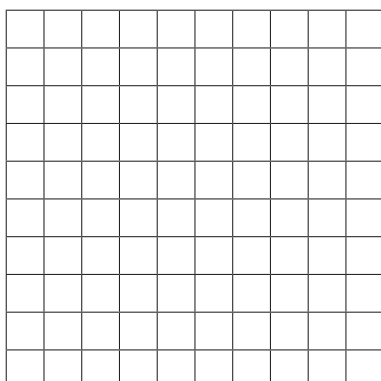
3

Shade $\frac{25}{100}$ of this
hundreds square.What percentage
have you
shaded?



4

Shade $\frac{100}{100}$ of this
hundreds square.What percentage
have you
shaded?

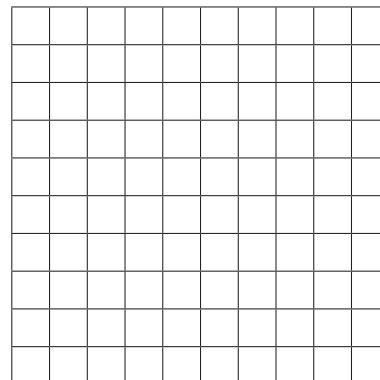


NC6–23

Practical – Hundreds squares

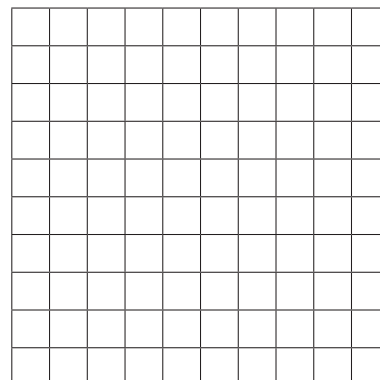
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Shade $\frac{1}{2}$ of this
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you shaded?



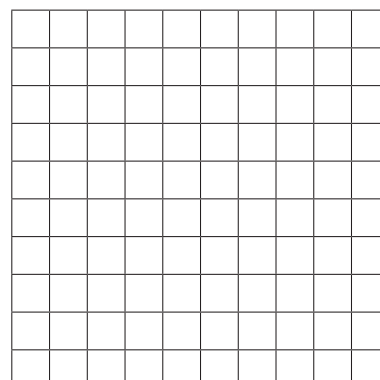
2

Shade $\frac{10}{100}$ of this
hundreds square.What percentage
of the hundreds
square have
you shaded?



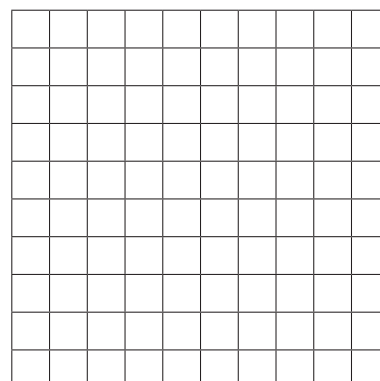
3

Shade $\frac{25}{100}$ of this
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shaded?



4

Shade $\frac{100}{100}$ of this
hundreds square.What percentage
have you
shaded?



NC6–28

- 1 a Shade the fraction given beside each diagram.

$\frac{1}{4}$



$\frac{3}{4}$



- 2 a Shade the fraction given beside each diagram.

$\frac{4}{5}$



$\frac{2}{5}$



$\frac{3}{5}$



NC6–28

- 1 a Shade the fraction given beside each diagram.

$\frac{1}{4}$



$\frac{3}{4}$



- 2 a Shade the fraction given beside each diagram.

$\frac{4}{5}$



$\frac{2}{5}$



$\frac{3}{5}$



NC6–28

- 1 a Shade the fraction given beside each diagram.

$\frac{1}{4}$



$\frac{3}{4}$



- 2 a Shade the fraction given beside each diagram.

$\frac{4}{5}$



$\frac{2}{5}$



$\frac{3}{5}$



NC6–28

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$\frac{1}{4}$



$\frac{3}{4}$



- 2 a Shade the fraction given beside each diagram.

$\frac{4}{5}$



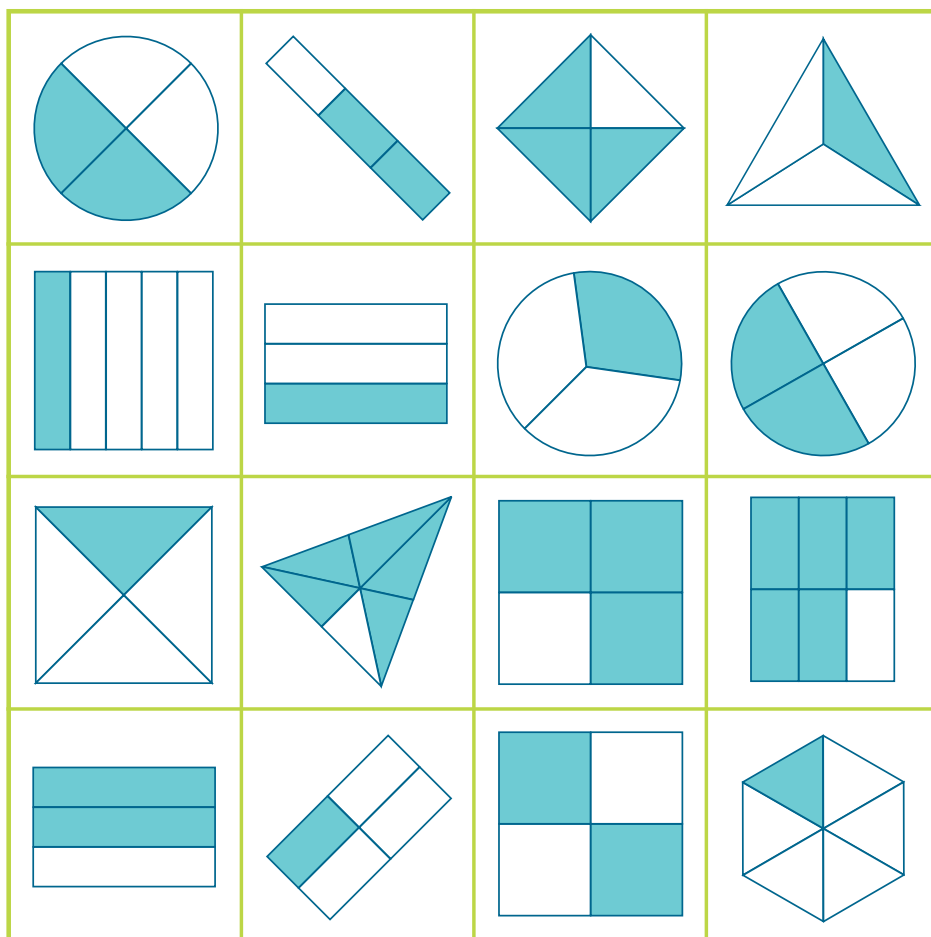
$\frac{2}{5}$



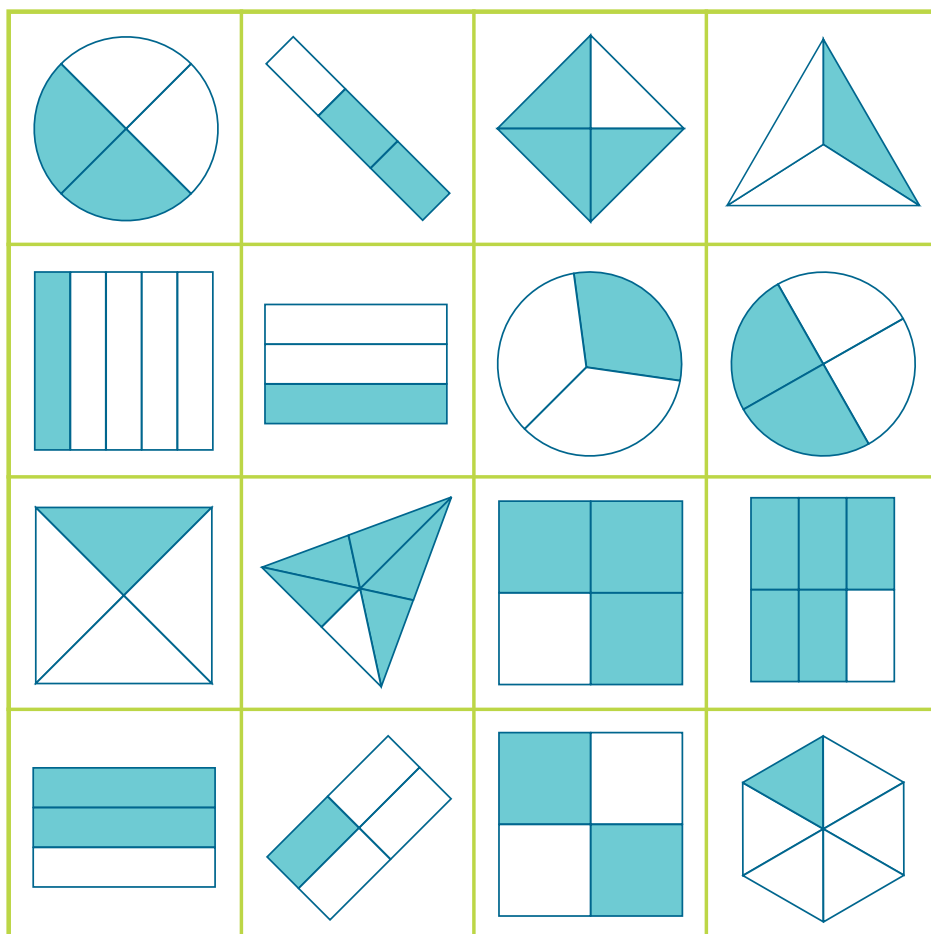
$\frac{3}{5}$



NC6–30

**Game –
Comparing fractions**

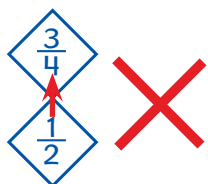
NC6–30

**Game –
Comparing fractions**

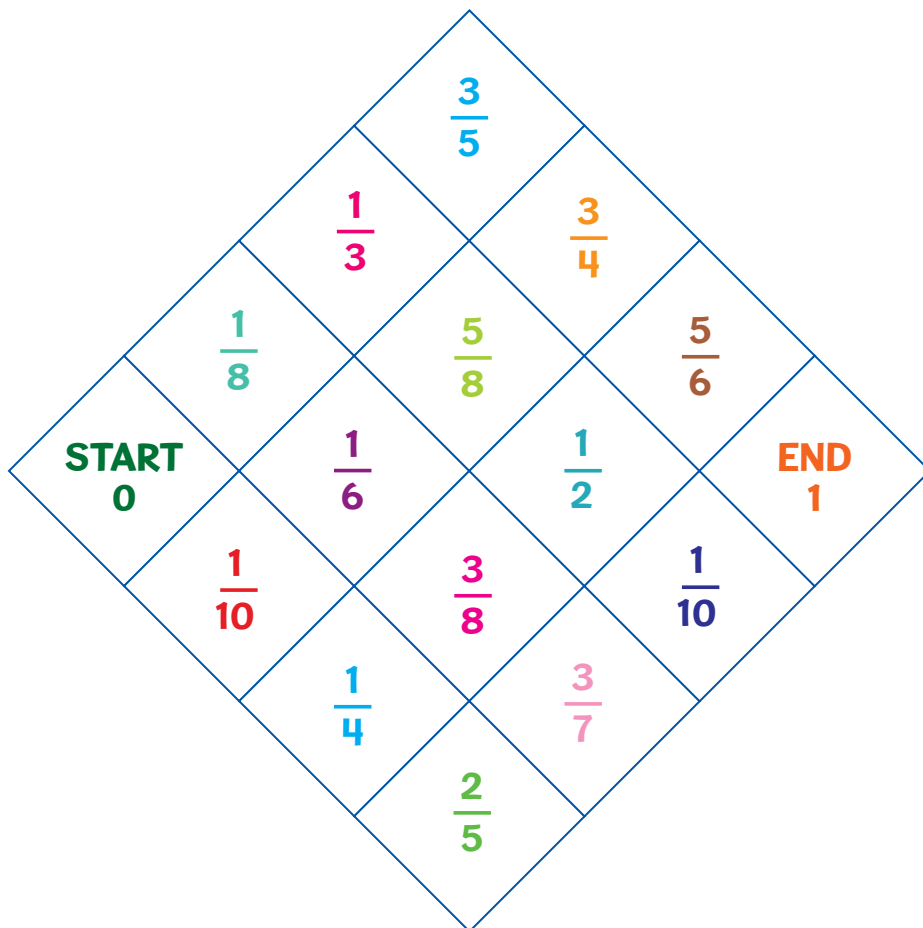
NC6–30

Puzzle

- Find a path from start to end.
- You can only move to a diamond with a greater fraction than the one you are on.
- You can only move one diamond at a time.
You can not move to a diamond which does not have a side in common.



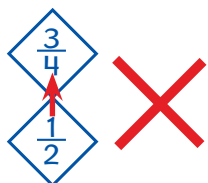
- Which is the most direct path?
Find as many paths as you can.
Write them down.



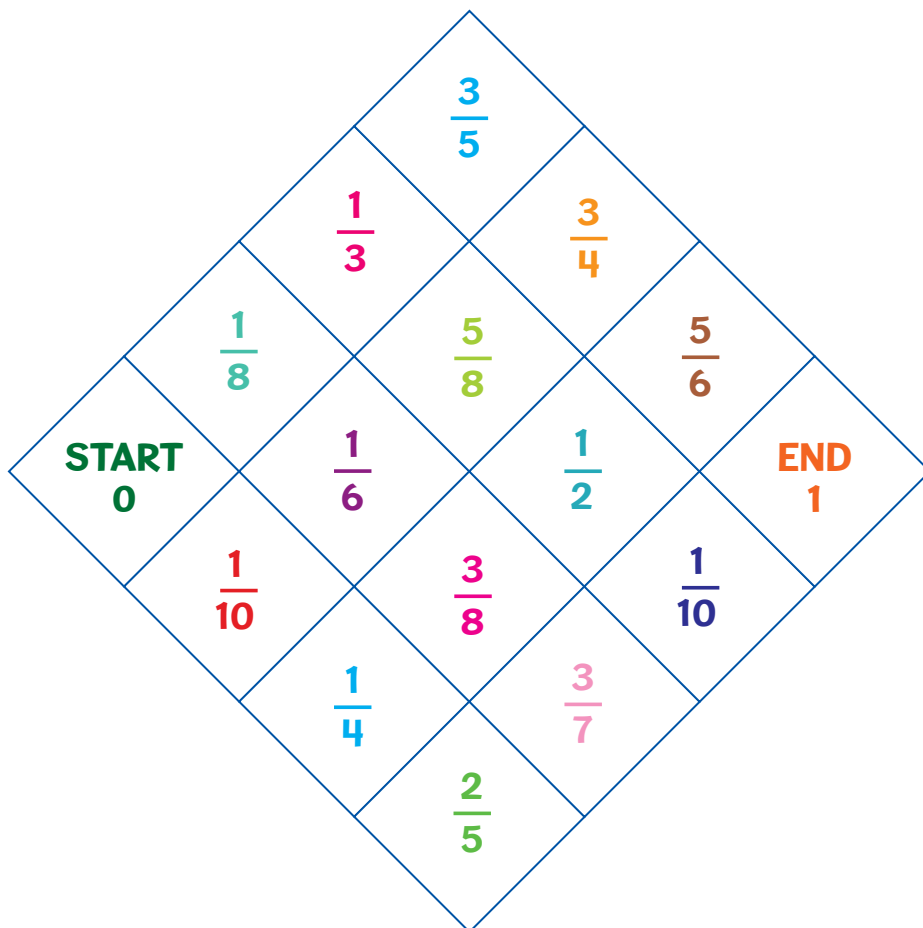
NC6–30

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- Which is the most direct path?
Find as many paths as you can.
Write them down.



NC6-31

1 Fill in the red boxes.

a

$$\frac{4}{12} = \frac{\boxed{}}{\boxed{}}$$

÷4

b

$$\frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$

÷3

c

$$\frac{9}{12} = \frac{\boxed{}}{\boxed{}}$$

÷3

d

$$\frac{6}{12} = \frac{\boxed{}}{\boxed{}}$$

÷6

e

$$\frac{5}{10} = \frac{\boxed{}}{\boxed{}}$$

÷5

f

$$\frac{9}{12} = \frac{\boxed{}}{\boxed{}}$$

÷3

g

$$\frac{16}{20} = \frac{\boxed{}}{\boxed{}}$$

÷4

h

$$\frac{8}{100} = \frac{\boxed{}}{\boxed{}}$$

÷4

NC6-31

1 Fill in the red boxes.

a

$$\frac{4}{12} = \frac{\boxed{}}{\boxed{}}$$

÷4

b

$$\frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$

÷3

c

$$\frac{9}{12} = \frac{\boxed{}}{\boxed{}}$$

÷3

d

$$\frac{6}{12} = \frac{\boxed{}}{\boxed{}}$$

÷6

e

$$\frac{5}{10} = \frac{\boxed{}}{\boxed{}}$$

÷5

f

$$\frac{9}{12} = \frac{\boxed{}}{\boxed{}}$$

÷3

g

$$\frac{16}{20} = \frac{\boxed{}}{\boxed{}}$$

÷4

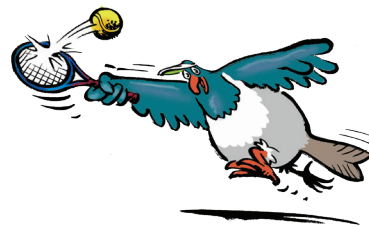
h

$$\frac{8}{100} = \frac{\boxed{}}{\boxed{}}$$

÷4

NC6-38

3 Why couldn't the tennis player light a fire?



$\overline{10.6}$ $\overline{5.7}$ $\overline{6.9}$ **A** $\overline{9.5}$ $\overline{2.5}$ $\overline{4.4}$ $\overline{5.7}$ $\overline{4.4}$ $\overline{21.72}$ $\overline{5.7}$ $\overline{21.72}$ **A** $\overline{9.5}$ $\overline{11.8}$
 $\overline{5.2}$ $\overline{2.6}$ $\overline{4.4}$ $\overline{2.65}$ **A** $\overline{9.5}$ $\overline{5.2}$ $\overline{5.2}$ $\overline{21.72}$ $\overline{5.7}$ $\overline{14.3}$
 $\overline{6.67}$ **A** $\overline{9.5}$ $\overline{2.65}$ $\overline{6.9}$ $\overline{21.72}$ $\overline{5.7}$ $\overline{4.4}$

- A** $4.3 + 5.2 = 9.5$ **D** $8.1 + 3.7 = \underline{\hspace{2cm}}$ **C** $4.6 + 2.3 = \underline{\hspace{2cm}}$ **U** $7.9 - 5.4 = \underline{\hspace{2cm}}$
L $12.6 - 7.4 = \underline{\hspace{2cm}}$ **B** $5.7 + 4.9 = \underline{\hspace{2cm}}$ **R** $8.7 + 5.6 = \underline{\hspace{2cm}}$ **O** $9.3 - 6.7 = \underline{\hspace{2cm}}$
S $12.1 - 7.7 = \underline{\hspace{2cm}}$ **E** $23.6 - 17.9 = \underline{\hspace{2cm}}$ **H** $17.09 + 4.63 = \underline{\hspace{2cm}}$ **T** $11.35 - 8.7 = \underline{\hspace{2cm}}$
M $14.06 - 7.39 = \underline{\hspace{2cm}}$

NC6-38

3 Why couldn't the tennis player light a fire?



$\overline{10.6}$ $\overline{5.7}$ $\overline{6.9}$ **A** $\overline{9.5}$ $\overline{2.5}$ $\overline{4.4}$ $\overline{5.7}$ $\overline{4.4}$ $\overline{21.72}$ $\overline{5.7}$ $\overline{21.72}$ **A** $\overline{9.5}$ $\overline{11.8}$
 $\overline{5.2}$ $\overline{2.6}$ $\overline{4.4}$ $\overline{2.65}$ **A** $\overline{9.5}$ $\overline{5.2}$ $\overline{5.2}$ $\overline{21.72}$ $\overline{5.7}$ $\overline{14.3}$
 $\overline{6.67}$ **A** $\overline{9.5}$ $\overline{2.65}$ $\overline{6.9}$ $\overline{21.72}$ $\overline{5.7}$ $\overline{4.4}$

- A** $4.3 + 5.2 = 9.5$ **D** $8.1 + 3.7 = \underline{\hspace{2cm}}$ **C** $4.6 + 2.3 = \underline{\hspace{2cm}}$ **U** $7.9 - 5.4 = \underline{\hspace{2cm}}$
L $12.6 - 7.4 = \underline{\hspace{2cm}}$ **B** $5.7 + 4.9 = \underline{\hspace{2cm}}$ **R** $8.7 + 5.6 = \underline{\hspace{2cm}}$ **O** $9.3 - 6.7 = \underline{\hspace{2cm}}$
S $12.1 - 7.7 = \underline{\hspace{2cm}}$ **E** $23.6 - 17.9 = \underline{\hspace{2cm}}$ **H** $17.09 + 4.63 = \underline{\hspace{2cm}}$ **T** $11.35 - 8.7 = \underline{\hspace{2cm}}$
M $14.06 - 7.39 = \underline{\hspace{2cm}}$

NC6-39

Game – Eight digits

				.		
+				.		

				.		
+				.		

				.		
+				.		

				.		
+				.		

				.		
+				.		

				.		
+				.		

NC6-39

Game – Eight digits

				.		
+				.		

				.		
+				.		

				.		
+				.		

				.		
+				.		

				.		
+				.		

				.		
+				.		

NC6–47

5 On the scales below, draw an arrow to show the number given beside the scale.

a 2.9



b 4.7



NC6–47

5 On the scales below, draw an arrow to show the number given beside the scale.

a 2.9



b 4.7



NC6–47

5 On the scales below, draw an arrow to show the number given beside the scale.

a 2.9



b 4.7



NC6–47

5 On the scales below, draw an arrow to show the number given beside the scale.

a 2.9



b 4.7



NC6–48

Practical – Hot or Cold

Estimate of temperature					
	time	estimate inside	actual inside	estimate outside	actual outside
1					
2					
3					

temperatures (°C)	
outside shady	
outside not shady	
inside shady	
inside not shady	

NC6–48

Practical – Hot or Cold

Estimate of temperature					
	time	estimate inside	actual inside	estimate outside	actual outside
1					
2					
3					

temperatures (°C)	
outside shady	
outside not shady	
inside shady	
inside not shady	

Practical – Counting squares

[illegible]

Practical – Counting squares

[illegible]