

**Fractions:
Improper / Mixed**

★ Write each improper fraction as a mixed number. **A**

A $\frac{3}{2} = 1\frac{1}{2}$

B $\frac{5}{2} =$

C $\frac{7}{2} =$

D $\frac{5}{3} =$

E $\frac{7}{3} =$

F $\frac{4}{3} =$

G $\frac{5}{4} =$

H $\frac{11}{4} =$

I $\frac{6}{4} =$

J $\frac{8}{5} =$

K $\frac{11}{5} =$

L $\frac{16}{5} =$

M $\frac{7}{6} =$

N $\frac{19}{6} =$

O $\frac{9}{6} =$

P $\frac{15}{7} =$

Q $\frac{11}{7} =$

R $\frac{22}{7} =$

S $\frac{10}{8} =$

T $\frac{17}{8} =$

U $\frac{25}{8} =$

V $\frac{20}{9} =$

W $\frac{10}{9} =$

X $\frac{18}{9} =$

5.2B

**Fractions:
Improper / Mixed**

★ Write each mixed number as an improper fraction. **B**

A $2\frac{1}{2} = \frac{5}{2}$

B $1\frac{1}{2} =$

C $4\frac{1}{2} =$

D $2\frac{2}{3} =$

E $3\frac{1}{3} =$

F $1\frac{2}{3} =$

G $2\frac{1}{4} =$

H $1\frac{3}{4} =$

I $3\frac{2}{4} =$

J $1\frac{1}{5} =$

K $2\frac{2}{5} =$

L $4\frac{3}{5} =$

M $2\frac{1}{6} =$

N $1\frac{3}{6} =$

O $3\frac{2}{6} =$

P $1\frac{2}{7} =$

Q $3\frac{3}{7} =$

R $2\frac{1}{7} =$

S $3\frac{2}{8} =$

T $1\frac{1}{8} =$

U $2\frac{3}{8} =$

V $2\frac{3}{9} =$

W $3\frac{2}{9} =$

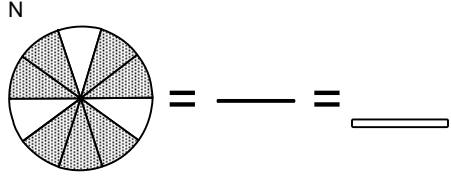
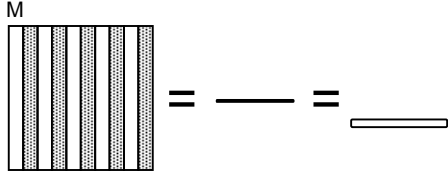
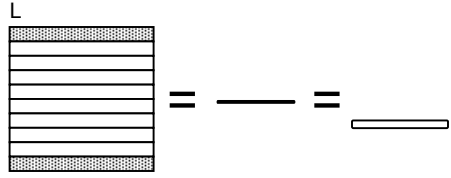
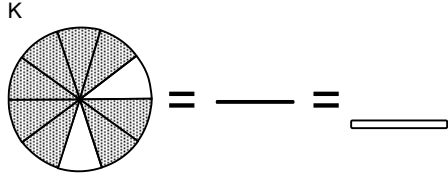
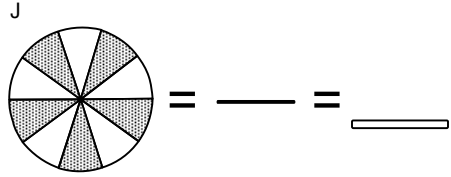
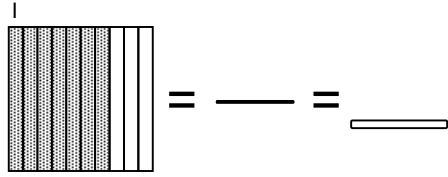
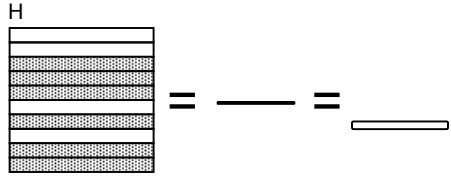
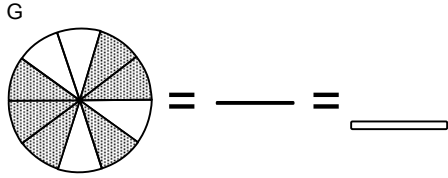
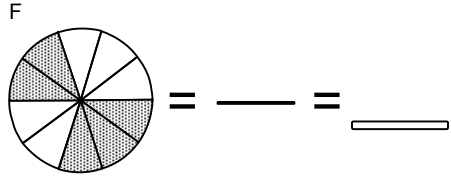
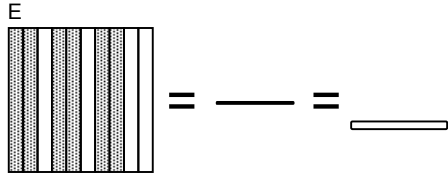
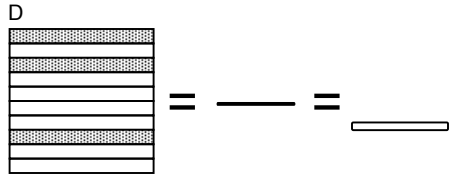
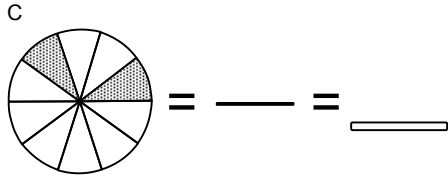
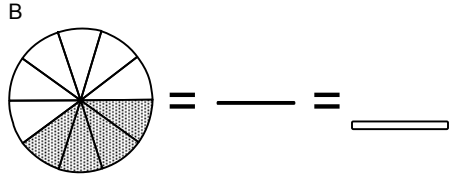
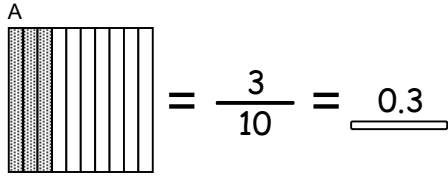
X $1\frac{1}{9} =$

5.2B

Decimal Models:
Tenths

★ Describe each model with a fraction and a decimal.

A

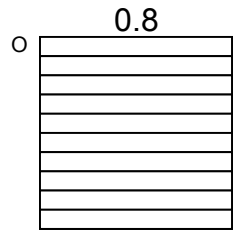
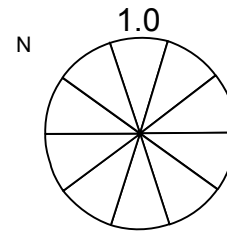
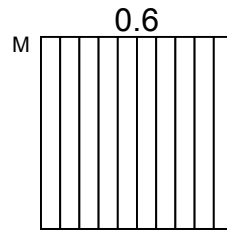
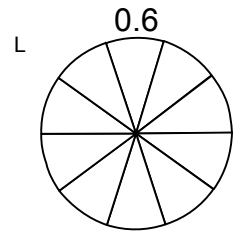
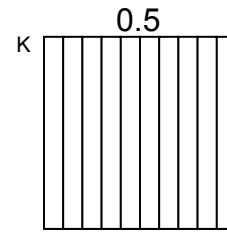
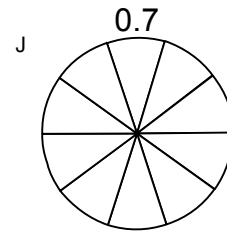
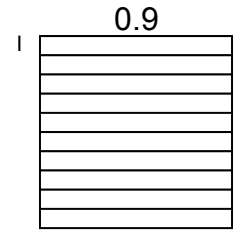
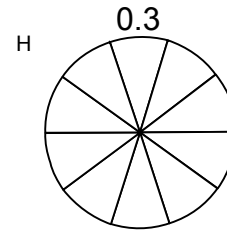
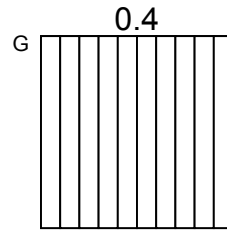
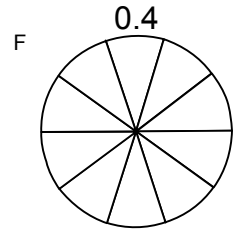
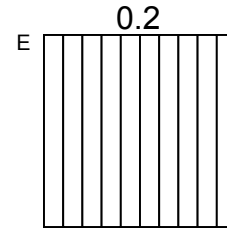
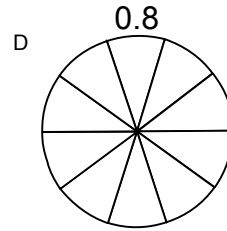
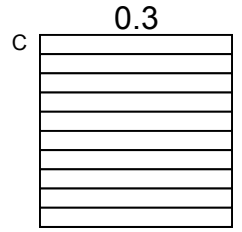
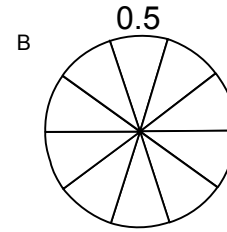
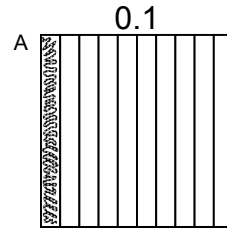


5.2D

Decimal Models:
Tenths

★ Shade the given decimal.

B



5.2D

Addition: ★ Add from left to right. **A**

Cumulative

Set A $100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 =$ _____

Set B $100 + 100 + 200 + 100 + 200 + 100 + 200 + 100 =$ _____

Set C $100 + 200 + 200 + 200 + 100 + 200 + 100 + 200 =$ _____

Set D $100 + 300 + 100 + 300 + 100 + 100 + 300 + 100 =$ _____

Set E $100 + 300 + 200 + 100 + 300 + 100 + 100 + 200 =$ _____

Set F $300 + 200 + 100 + 300 + 200 + 100 + 300 + 200 =$ _____

Set G $200 + 100 + 300 + 300 + 100 + 200 + 200 + 100 =$ _____

Set H $300 + 200 + 100 + 300 + 200 + 100 + 300 + 200 =$ _____

5.3A

Addition: ★ Add from top to bottom. **B**

Cumulative

Set A	Set B	Set C	Set D	Set E	Set F
100	100	200	300	300	200
100	200	100	100	200	100
100	100	200	100	100	300
100	100	100	300	300	100
100	200	200	100	100	100
100	100	100	100	100	300
100	100	200	300	200	100
100	200	100	300	200	100
100	100	200	100	200	200
100	100	100	100	200	100
100	100	100	100	200	100
100	200	200	300	100	300
100	100	200	100	100	300
<u>+ 100</u>	<u>+ 100</u>	<u>+ 200</u>	<u>+ 100</u>	<u>+ 300</u>	<u>+ 300</u>

5.3A

Addition: ★ Add from left to right. **C**

Cumulative

Set A $100 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 =$ _____

Set B $100 + 10 + 100 + 10 + 10 + 10 + 100 + 10 + 10 =$ _____

Set C $100 + 100 + 10 + 10 + 100 + 10 + 100 + 10 + 10 =$ _____

Set D $100 + 20 + 10 + 100 + 20 + 20 + 10 + 100 + 10 =$ _____

Set E $10 + 100 + 20 + 20 + 100 + 20 + 10 + 100 + 10 =$ _____

Set F $20 + 10 + 100 + 30 + 20 + 10 + 100 + 100 + 20 =$ _____

Set G $100 + 30 + 20 + 10 + 100 + 30 + 20 + 10 + 100 =$ _____

Set H $30 + 20 + 10 + 100 + 100 + 100 + 100 + 30 + 20 =$ _____

5.3A

Addition: ★ Add from top to bottom. **D**

Cumulative

Set A	Set B	Set C	Set D	Set E	Set F
100	100	100	100	100	100
10	10	20	100	30	20
10	10	10	10	10	20
10	10	10	20	30	20
10	10	100	20	20	20
10	100	20	10	10	20
10	10	10	10	10	100
10	10	10	10	10	100
10	10	10	100	30	30
10	10	20	100	10	10
10	100	100	10	10	10
10	10	20	10	100	30
10	10	10	20	100	20
<u>+ 10</u>	<u>+ 100</u>	<u>+ 10</u>	<u>+ 100</u>	<u>+ 100</u>	<u>+ 100</u>

5.3A

Rounding: ★ Round each number to the nearest 10. **A**

Nearest 10
Embedded

A 131 \rightsquigarrow <u>130</u>	B 169 \rightsquigarrow _____	C 122 \rightsquigarrow _____
D 186 \rightsquigarrow _____	E 119 \rightsquigarrow _____	F 148 \rightsquigarrow _____
G 173 \rightsquigarrow _____	H 191 \rightsquigarrow _____	I 209 \rightsquigarrow _____
J 263 \rightsquigarrow _____	K 325 \rightsquigarrow _____	L 438 \rightsquigarrow _____
M 518 \rightsquigarrow _____	N 645 \rightsquigarrow _____	O 783 \rightsquigarrow _____

5.4A

Rounding: ★ Round each number to the nearest 10. **B**

Nearest 10
Embedded

A 148 \rightsquigarrow _____	B 225 \rightsquigarrow _____	C 417 \rightsquigarrow _____
D 365 \rightsquigarrow _____	E 519 \rightsquigarrow _____	F 734 \rightsquigarrow _____
G 851 \rightsquigarrow _____	H 279 \rightsquigarrow _____	I 485 \rightsquigarrow _____
J 311 \rightsquigarrow _____	K 623 \rightsquigarrow _____	L 945 \rightsquigarrow _____
M 236 \rightsquigarrow _____	N 165 \rightsquigarrow _____	O 418 \rightsquigarrow _____
P 576 \rightsquigarrow _____	Q 754 \rightsquigarrow _____	R 289 \rightsquigarrow _____

5.4A

Rounding: ★ Round each number to the nearest 10. **C**

Nearest 10
Embedded

A 247 \rightsquigarrow <u>250</u>	B 187 \rightsquigarrow _____	C 572 \rightsquigarrow _____
D 665 \rightsquigarrow _____	E 316 \rightsquigarrow _____	F 493 \rightsquigarrow _____
G 725 \rightsquigarrow _____	H 133 \rightsquigarrow _____	I 254 \rightsquigarrow _____
J 475 \rightsquigarrow _____	K 244 \rightsquigarrow _____	L 381 \rightsquigarrow _____
M 512 \rightsquigarrow _____	N 669 \rightsquigarrow _____	O 724 \rightsquigarrow _____

5.4A

Rounding: ★ Round each number to the nearest 10. **D**

Nearest 10
Embedded

A 155 \rightsquigarrow _____	B 462 \rightsquigarrow _____	C 974 \rightsquigarrow _____
D 234 \rightsquigarrow _____	E 685 \rightsquigarrow _____	F 344 \rightsquigarrow _____
G 619 \rightsquigarrow _____	H 425 \rightsquigarrow _____	I 893 \rightsquigarrow _____
J 375 \rightsquigarrow _____	K 256 \rightsquigarrow _____	L 168 \rightsquigarrow _____
M 444 \rightsquigarrow _____	N 637 \rightsquigarrow _____	O 185 \rightsquigarrow _____
P 909 \rightsquigarrow _____	Q 712 \rightsquigarrow _____	R 555 \rightsquigarrow _____

5.4A

Rounding: ★ Estimate each difference by rounding the minuends and subtrahends to the nearest 10. **A**

A
$$\begin{array}{r} 21 \curvearrowright 20 \\ - 11 \curvearrowright 10 \\ \hline 10 \end{array}$$

B
$$\begin{array}{r} 32 \curvearrowright \\ - 19 \curvearrowright \\ \hline \end{array}$$

C
$$\begin{array}{r} 41 \curvearrowright \\ - 22 \curvearrowright \\ \hline \end{array}$$

D
$$\begin{array}{r} 33 \curvearrowright \\ - 12 \curvearrowright \\ \hline \end{array}$$

E
$$\begin{array}{r} 41 \curvearrowright \\ - 11 \curvearrowright \\ \hline \end{array}$$

F
$$\begin{array}{r} 33 \curvearrowright \\ - 18 \curvearrowright \\ \hline \end{array}$$

G
$$\begin{array}{r} 22 \curvearrowright \\ - 12 \curvearrowright \\ \hline \end{array}$$

H
$$\begin{array}{r} 41 \curvearrowright \\ - 18 \curvearrowright \\ \hline \end{array}$$

I
$$\begin{array}{r} 52 \curvearrowright \\ - 11 \curvearrowright \\ \hline \end{array}$$

5.4A

Rounding: ★ Estimate each difference by rounding the minuends and subtrahends to the nearest 10. **B**

A
$$\begin{array}{r} 232 \curvearrowright 230 \\ - 121 \curvearrowright 120 \\ \hline 110 \end{array}$$

B
$$\begin{array}{r} 358 \curvearrowright \\ - 141 \curvearrowright \\ \hline \end{array}$$

C
$$\begin{array}{r} 683 \curvearrowright \\ - 459 \curvearrowright \\ \hline \end{array}$$

D
$$\begin{array}{r} 172 \curvearrowright \\ - 119 \curvearrowright \\ \hline \end{array}$$

E
$$\begin{array}{r} 551 \curvearrowright \\ - 342 \curvearrowright \\ \hline \end{array}$$

F
$$\begin{array}{r} 687 \curvearrowright \\ - 422 \curvearrowright \\ \hline \end{array}$$

G
$$\begin{array}{r} 788 \curvearrowright \\ - 451 \curvearrowright \\ \hline \end{array}$$

H
$$\begin{array}{r} 843 \curvearrowright \\ - 611 \curvearrowright \\ \hline \end{array}$$

I
$$\begin{array}{r} 475 \curvearrowright \\ - 133 \curvearrowright \\ \hline \end{array}$$

J
$$\begin{array}{r} 589 \curvearrowright \\ - 163 \curvearrowright \\ \hline \end{array}$$

K
$$\begin{array}{r} 374 \curvearrowright \\ - 256 \curvearrowright \\ \hline \end{array}$$

L
$$\begin{array}{r} 289 \curvearrowright \\ - 154 \curvearrowright \\ \hline \end{array}$$

5.4A

Rounding: ★ Estimate each difference by rounding the minuends and subtrahends to the nearest 10. **C**

A
$$\begin{array}{r} 48 \curvearrowright 50 \\ - 19 \curvearrowright 20 \\ \hline 30 \end{array}$$

B
$$\begin{array}{r} 38 \curvearrowright \\ - 11 \curvearrowright \\ \hline \end{array}$$

C
$$\begin{array}{r} 52 \curvearrowright \\ - 26 \curvearrowright \\ \hline \end{array}$$

D
$$\begin{array}{r} 64 \curvearrowright \\ - 23 \curvearrowright \\ \hline \end{array}$$

E
$$\begin{array}{r} 59 \curvearrowright \\ - 32 \curvearrowright \\ \hline \end{array}$$

F
$$\begin{array}{r} 61 \curvearrowright \\ - 17 \curvearrowright \\ \hline \end{array}$$

G
$$\begin{array}{r} 45 \curvearrowright \\ - 27 \curvearrowright \\ \hline \end{array}$$

H
$$\begin{array}{r} 58 \curvearrowright \\ - 18 \curvearrowright \\ \hline \end{array}$$

I
$$\begin{array}{r} 86 \curvearrowright \\ - 21 \curvearrowright \\ \hline \end{array}$$

5.4A

Rounding: ★ Estimate each difference by rounding the minuends and subtrahends to the nearest 10. **D**

A
$$\begin{array}{r} 578 \curvearrowright 580 \\ - 236 \curvearrowright 240 \\ \hline 340 \end{array}$$

B
$$\begin{array}{r} 642 \curvearrowright \\ - 119 \curvearrowright \\ \hline \end{array}$$

C
$$\begin{array}{r} 475 \curvearrowright \\ - 222 \curvearrowright \\ \hline \end{array}$$

D
$$\begin{array}{r} 789 \curvearrowright \\ - 431 \curvearrowright \\ \hline \end{array}$$

E
$$\begin{array}{r} 549 \curvearrowright \\ - 124 \curvearrowright \\ \hline \end{array}$$

F
$$\begin{array}{r} 866 \curvearrowright \\ - 273 \curvearrowright \\ \hline \end{array}$$

G
$$\begin{array}{r} 355 \curvearrowright \\ - 118 \curvearrowright \\ \hline \end{array}$$

H
$$\begin{array}{r} 667 \curvearrowright \\ - 334 \curvearrowright \\ \hline \end{array}$$

I
$$\begin{array}{r} 882 \curvearrowright \\ - 169 \curvearrowright \\ \hline \end{array}$$

J
$$\begin{array}{r} 287 \curvearrowright \\ - 244 \curvearrowright \\ \hline \end{array}$$

K
$$\begin{array}{r} 375 \curvearrowright \\ - 154 \curvearrowright \\ \hline \end{array}$$

L
$$\begin{array}{r} 584 \curvearrowright \\ - 552 \curvearrowright \\ \hline \end{array}$$

5.4A

Rounding: ★ Estimate each product by rounding the factors to the nearest 10. **A**

Estimated Products

A	$23 \rightsquigarrow 20$	B	$19 \rightsquigarrow$	C	$21 \rightsquigarrow$
	$\times 11 \rightsquigarrow 10$		$\times 23 \rightsquigarrow$		$\times 39 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>
	200				

D	$33 \rightsquigarrow$	E	$29 \rightsquigarrow$	F	$28 \rightsquigarrow$
	$\times 42 \rightsquigarrow$		$\times 18 \rightsquigarrow$		$\times 29 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

G	$57 \rightsquigarrow$	H	$43 \rightsquigarrow$	I	$62 \rightsquigarrow$
	$\times 32 \rightsquigarrow$		$\times 12 \rightsquigarrow$		$\times 51 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

J	$79 \rightsquigarrow$	K	$48 \rightsquigarrow$	L	$12 \rightsquigarrow$
	$\times 21 \rightsquigarrow$		$\times 47 \rightsquigarrow$		$\times 45 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

5.4A

Rounding: ★ Round the 3-digit factors to the nearest 100. Round the 2-digit factors to the nearest 10. Then multiply the rounded factors. **B**

Estimated Products

A	$199 \rightsquigarrow 200$	B	$312 \rightsquigarrow$	C	$489 \rightsquigarrow$
	$\times 18 \rightsquigarrow 20$		$\times 11 \rightsquigarrow$		$\times 22 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>
	4,000				

D	$637 \rightsquigarrow$	E	$575 \rightsquigarrow$	F	$713 \rightsquigarrow$
	$\times 22 \rightsquigarrow$		$\times 13 \rightsquigarrow$		$\times 29 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

G	$432 \rightsquigarrow$	H	$202 \rightsquigarrow$	I	$468 \rightsquigarrow$
	$\times 49 \rightsquigarrow$		$\times 17 \rightsquigarrow$		$\times 39 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

J	$211 \rightsquigarrow$	K	$386 \rightsquigarrow$	L	$501 \rightsquigarrow$
	$\times 31 \rightsquigarrow$		$\times 24 \rightsquigarrow$		$\times 43 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

5.4A

Rounding: ★ Estimate each product by rounding the factors to the nearest 10. **C**

Estimated Products

A	$22 \rightsquigarrow 20$	B	$19 \rightsquigarrow$	C	$42 \rightsquigarrow$
	$\times 19 \rightsquigarrow 20$		$\times 42 \rightsquigarrow$		$\times 33 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>
	400				

D	$11 \rightsquigarrow$	E	$89 \rightsquigarrow$	F	$53 \rightsquigarrow$
	$\times 51 \rightsquigarrow$		$\times 12 \rightsquigarrow$		$\times 48 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

G	$72 \rightsquigarrow$	H	$19 \rightsquigarrow$	I	$62 \rightsquigarrow$
	$\times 39 \rightsquigarrow$		$\times 47 \rightsquigarrow$		$\times 17 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

J	$54 \rightsquigarrow$	K	$32 \rightsquigarrow$	L	$11 \rightsquigarrow$
	$\times 23 \rightsquigarrow$		$\times 32 \rightsquigarrow$		$\times 18 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

5.4A

Rounding: ★ Round the 3-digit factors to the nearest 100. Round the 2-digit factors to the nearest 10. Then multiply the rounded factors. **D**

Estimated Products

A	$212 \rightsquigarrow 200$	B	$189 \rightsquigarrow$	C	$495 \rightsquigarrow$
	$\times 32 \rightsquigarrow 30$		$\times 47 \rightsquigarrow$		$\times 18 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>
	6,000				

D	$330 \rightsquigarrow$	E	$674 \rightsquigarrow$	F	$521 \rightsquigarrow$
	$\times 23 \rightsquigarrow$		$\times 18 \rightsquigarrow$		$\times 37 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

G	$702 \rightsquigarrow$	H	$915 \rightsquigarrow$	I	$294 \rightsquigarrow$
	$\times 52 \rightsquigarrow$		$\times 27 \rightsquigarrow$		$\times 43 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

J	$132 \rightsquigarrow$	K	$482 \rightsquigarrow$	L	$399 \rightsquigarrow$
	$\times 11 \rightsquigarrow$		$\times 34 \rightsquigarrow$		$\times 48 \rightsquigarrow$
	<u> </u>		<u> </u>		<u> </u>

5.4A