

Worksheet 2015-6AA-00003

NUMBER PATTERNS

Fractions: These are numbers that can divide into another number without a remainder
(THERE ARE MORE INFO AT THE BACKGROUND KNOWLEDGE)

(1) Determine the factors of the following numbers by using the multiplication tables.

(a) 20	(b) 28	(c) 32
1 x 20	1 x 28	1 x 32
2 x 10	2 x 14	2 x 16
4 x 5	4 x 7	4 x 8
F₂₀: 1, 2, 4, 5, 10, 20	F₂₈: 1, 2, 4, 7, 14, 28	F₃₂: 1, 2, 4, 8, 16, 32

(d) 36	(e) 24	(f) 100
1 x 36	1 x 24	1 x 100
2 x 18	2 x 12	2 x 50
3 x 12	3 x 8	4 x 20
4 x 9	4 x 6	5 x 2
6 X 6		10 X 10

F₃₆: 1, 2, 3, 6, 12, 18, 36 **F₂₄: 1, 2, 3, 4, 6, 8, 12, 24** **F₁₀₀: 1, 2, 4, 5, 10, 20, 25, 50, 100**

(2) Write down the factors of the following numbers..

- (a) **F₅₄: 1, 2, 3, 6, 9, 18, 27, 54**
- (b) **F₇₂: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72**
- (c) **F₄₈: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48**
- (d) **F₆₀: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60**
- (e) **F₇₀: 1, 2, 5, 7, 10, 14, 35, 70**

(3) Complete the missing factors..

 $F_{32}:$

1	2	<u>4</u>	8	<u>16</u>	32
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 $F_{90}:$

1	2	3	5	6	<u>9</u>	<u>10</u>	<u>15</u>	<u>18</u>	<u>30</u>	<u>45</u>	90
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 $F_{50}:$

1	2	5	<u>10</u>	<u>25</u>	50
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 $F_{80}:$

<u>1</u>	2	4	<u>5</u>	<u>8</u>	<u>10</u>	<u>16</u>	<u>20</u>	<u>40</u>	80
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 $F_{54}:$

1	2	<u>3</u>	<u>6</u>	<u>9</u>	<u>18</u>	<u>27</u>	54
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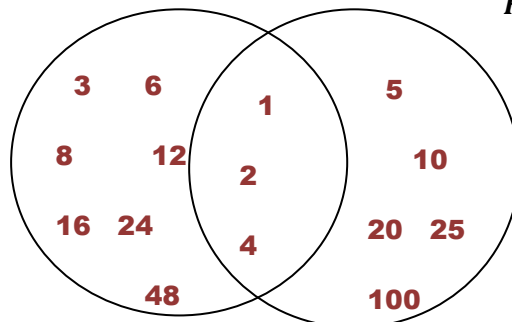
(4) Write down the factors and complete the circles to determine the GCF.

(a) $F_{48}:$ 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

$F_{100}:$ 1, 2, 4, 5, 10, 20, 25, 100

$F_{48}:$

$F_{100}:$



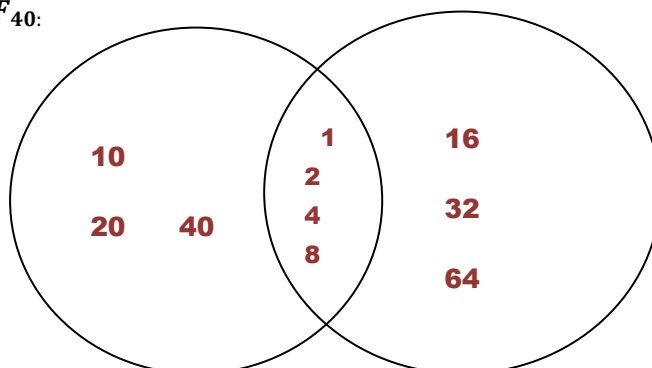
GCF: 4

(b) $F_{40}:$ 1, 2, 4, 5, 8, 10, 20, 40

$F_{64}:$ 1, 2, 4, 8, 16, 32, 64

$F_{40}:$

$F_{64}:$



GCF: 8