Composite functions

Exit ticket ANSWERS Name _____

1. $f(x) = 4x$ and $g(x) = x - 2$. Put 6 into g, then put the output into f. What comes out?

16

2. $f(x) = 3x + 2$ and $g(x) = x + 1$. Find $fg(4)$.

17

3. $f(x) = x^2$ and $g(x) = 2x - 3$. Find $gf(4)$.

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The Maths Habit

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1 **f(x) = 4x and g(x) = x − 2. Put 6 into g, then put the output into f. What comes out?**

16

TESTS The output of one function is the input of the next

LOOK FOR *22* put 6 into f first

96 f(6) × g(6): the output of g goes into f

FIX IT f(x) = x + 9 and g(x) = 2x. Put 5 into g, then put the output into f. What comes out? *19*

2 **f(x) = 3x + 2 and g(x) = x + 1. Find fg(4).**

17

TESTS fg(4): g goes first

LOOK FOR *15* f first: that is gf(4)

19 f(4) + g(4): put g(4) into f

FIX IT f(x) = 2x − 1 and g(x) = x + 6. Find fg(3). *17*

3 **f(x) = x^2 and g(x) = 2x − 3. Find gf(4).**

29

TESTS gf(4): f goes first, with a square

LOOK FOR *25* g first: that is fg(4)

FIX IT f(x) = x^2 and g(x) = x + 5. Find gf(3). *14*