Haitian Creole Edition

Grade 8 Mathematics, Book 1

Sample Test 2005

Matematik

Liv 1

Ane **8**

Egzanp Egzamen 2005

Konsèy pou fè egzanp egzamen an

Men kèk sijesyon pou ede ou fè tout sa ou kapab.

- Asire ou li tout sa ki nan tiliv egzamen an avèk atansyon.
- Ou ka sèvi ak zouti ou pou ede ou rezoud nenpòt pwoblèm ki nan egzamen an.
- Li chak kesyon avèk atansyon epi reflechi sou repons lan anvan ou chwazi repons ou.

Desen sa a vle di ou pral sèvi avèk règ ou yo.

Desen sa a vle di ou pral sèvi avèk rapòtè ou yo.

Direksyon

Reponn egzanp kesyon A ak B.

Egzanp A

Ki pi gran faktè komen pou 12, 18 ak 24 ?

A 2

B 3

C 6

D 12

Egzanp B

Senplifye ekspresyon ki anba a.

$$7x + 4 - 3x + 3$$

F $10x + 1$

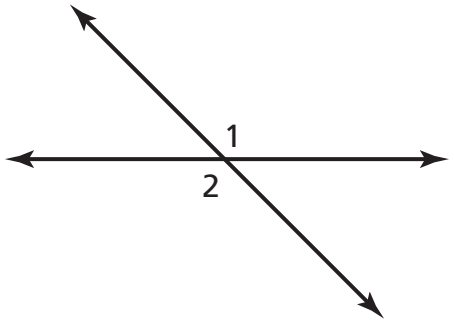
G $10x + 7$

H $4x + 1$

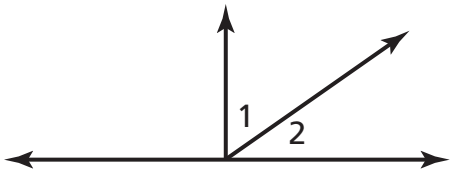
J $4x + 7$

1 Nan ki dyagram $\angle 1$ ak $\angle 2$ siplemantè?

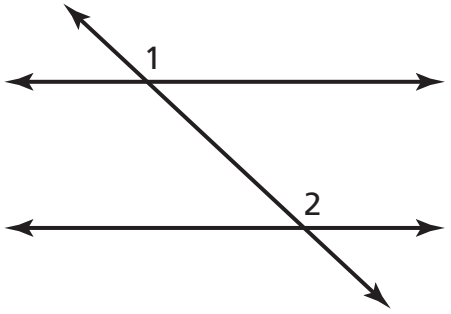
A



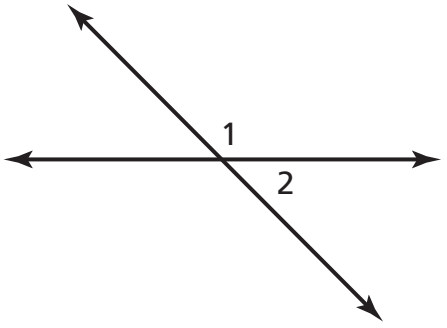
B



C



D



Kontinye

2 Ki ekspresyon ki se yon fòm ekivalan $\frac{2x^3 + 4x^2}{2x^2}$?

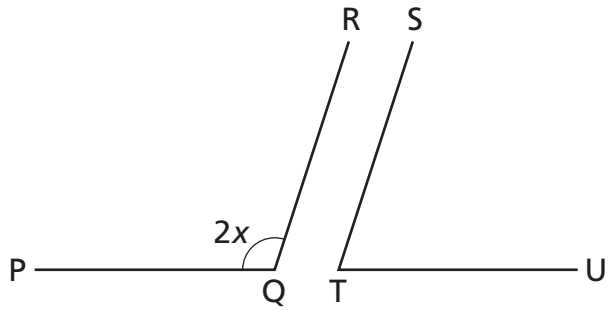
F $x + 2$

G $2x(x + 1)$

H $2x^2(x + 1)$

J $2x^2(x + 3)$

3 Ang yo montre anba yo siplemantè. Mezi $\angle PQR$ is $2x$.



Ki ekspresyon ki reprezante mezi $\angle STU$?

A $90 - 2x$

B $90 + 2x$

C $180 + 2x$

D $180 - 2x$

4 Senplifye ekspresyon ki anba a.

$$(3x^2y - 5xy + 12xy^2) - (5xy^2 + 4xy)$$

F $10x^2y^2 - 9xy$

G $20x^2y^2 - xy$

H $3x^2y - xy + 17xy^2$

J $3x^2y - 9xy + 7xy^2$

5 Horseshoe Nebula nan yon distans apeprè $5{,}0 \times 10^3$ ane-limyè ak Latè. Yon ane-limyè egal apeprè a $5{,}9 \times 10^{12}$ mil. Ki distans apwoksimatif an mil ki genyen ant Latè ak Horseshoe Nebula?

A $2{,}95 \times 10^{16}$

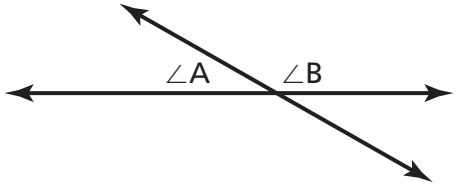
B $2{,}95 \times 10^{36}$

C $10{,}9 \times 10^{15}$

D $10{,}9 \times 10^{36}$

Kontinye

6 $\angle A = x + 2$ ak $\angle B = 2x + 4$.



Ki mezi $\angle A$?

F 30 degre
G 60 degre
H 90 degre
J 120 degre

7 Miltipliye de binòm ki anba yo.

$(2x - 3)\ (2x + 3)$

A $4x^2 + 9$
B $4x^2 - 9$
C $4x^2 - 6x - 9$
D $4x^2 - 12x + 9$

8 Bill ak Felicia, yo chak ap kwit kouki nan fou pou yon fèt. Bill kwit 3 fwa kantite kouki anplis pase Felicia. Felicia kwit 24 kouki an mwens pase Bill. Bill kwit *b* kouki epi Felicia kwit *f* kouki. Ki pè ekwasyon ki ka itilize pou detèmine kantite kouki Bill ak Felicia kwit?

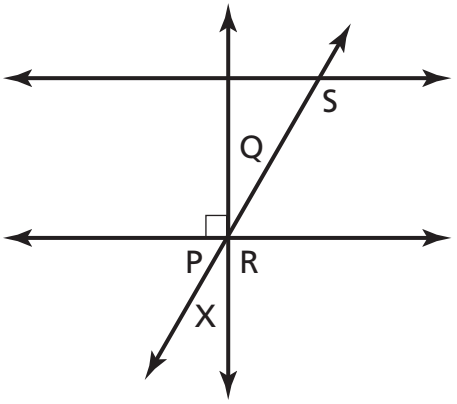
F $b = 3(f + 24)$
$f = b - 24$

G $b = 3f$
$f = 24 - b$

H $b = 3f$
$f = b - 24$

J $f = 3b$
$b = f - 24$

9 Michael trase dyagram ki anba a.



Ki ang ki konplemantè a ∠X?

A ∠P

B ∠Q

C ∠R

D ∠S

10 Senplifye ekspresyon ki anba a.

$$3a^2b + 6a^2b$$

F $9a^2b$

G $9a^4b^2$

H $18a^2b$

J $18a^4b^2$

11 Pandan sezon ete a, Breanna ap travay yon kote ki vann kafe. Li sere 75% salè li pou achte nouvo rad lekòl. Si Breanna touche $750, ki **pi bon** estimasyon pou kantite lajan li sere pou achte rad yo?

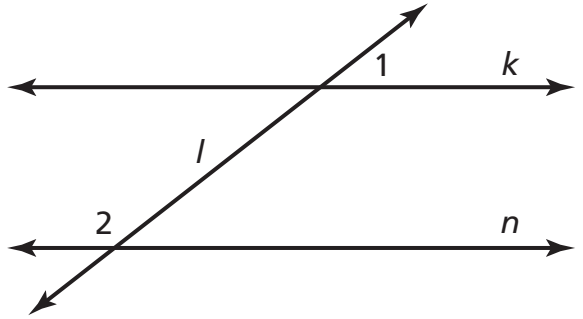
A $100

B $150

C $300

D $550

12 Nan dyagram ki anba a, dwat *k* ak *n* paralèl. Dwat *l* se yon dwat sekant.



Ki relasyon ki genyen ant $\angle 1$ ak $\angle 2$?

F konplemantè

G korespondan

H siplemantè

J vètikal

13 Hank vann oto jwèt sou yon sit entènèt. Frè sit entènèt la se $30. Hank vann chak oto jwèt pou $4. Ki inegalite Hank itilize pou detèmine kantite oto jwèt, *c*, li dwe vann pou li fè yon pwofi $50 **omwen**?

A $34c \leq 50$

B $34c \geq 50$

C $4c + 30 \leq 50$

D $4c - 30 \geq 50$

Kontinye

14 Linda dwe kalkile pri pou li plen tank gaz oto li ki kenbe 12 galon gaz. Li kalkile diferans ant kantite gazolin tank gaz li ap kenbe ak kantite galon gaz, *g*, ki deja nan tank lan. Answit, li miltipliye diferans lan pa pri, *p,* yon galon gaz. Ki ekspresyon Linda itilize pou kalkile pri pou li plen tank gaz li?

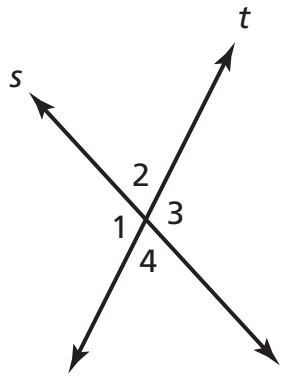
F $(12 - g)p$

G $gp - 12$

H $(g - p)12$

J $12p - g$

15 Dwat *s* ak dwat *t kwaze, jan sa endike anba a.*



Ki ang ki vètikal?

A $\angle 2$ ak $\angle 3$

B $\angle 2$ ak $\angle 1$

C $\angle 3$ ak $\angle 4$

D $\angle 3$ ak $\angle 1$

16 Miltipliye ekspresyon anba a.

$(3x - 5)(2x - 8)$

F $5x^2 + 3$

G $6x^2 - 40$

H $6x^2 + 34x + 40$

J $6x^2 - 34x - 40$

17 Tomás touche yon komisyon 5% pou chak telefòn selilè li vann. Madi, li vann á telefòn selilè pou $180. Konbyen komisyon Tomás touche sou lavant li?

A $9

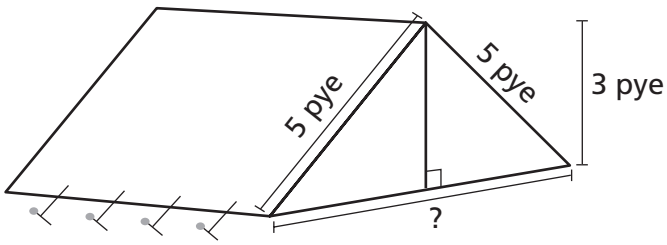
B $36

C $90

D $189

Kontinye

18 Dyagram ki anba a montre tant Sebastian te achte pou li ale nan yon vwayaj kanmping.



[pa trase selon echèl la]

Teyorèm Pitagò:
$c^2 = a^2 + b^2$

Ki lajè tout antre a ansanm ak ak baz tant lan?

F 4 pye

G 5 pye

H 6 pye

J 8 pye

19 Ki ekspresyon an mo ki ekivalan a *f* ekwasyon $y = 2x - 3$?

A Antrenè ekip foutbòl la genyen 3 zan plis pase laj pi jenn manm ekip la.

B Antrenè foutbòl la genyen 3 zan mwens de fwa laj pi jenn manm ekip la.

C Antrenè ekip foutbòl la genyen 2 zan plis twa fwa laj pi jenn manm ekip la.

D Antrenè ekip foutbòl la genyen 2 zan mwens twa fwa laj pi jenn manm ekip la.

20 Yon nonb, *n*, divize ba 2 enferyè oswa egal a pwodui *n* ak 3. Ki inegalite ki reprezante relasyon sa a?

F $\frac{n}{2} \geq 3n$

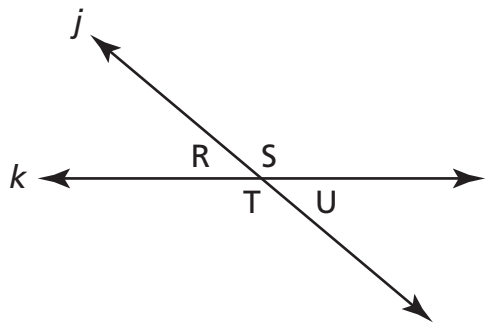
G $\frac{n}{2} \leq 3n$

H $\frac{n}{2} \geq n + 3$

J $\frac{n}{2} \leq n + 3$

Kontinye

21 Dwat *j* ak dwat *k* kwaze, jan san endike anba a.



Ki de pè ang ki kongriyan?

A $\angle$R ak $\angle$S; $\angle$T ak $\angle$U
B $\angle$R ak $\angle$T; $\angle$U ak $\angle$S
C $\angle$T ak $\angle$S; $\angle$U ak $\angle$R
D $\angle$T ak $\angle$U; $\angle$T ak $\angle$S

22 Senplifye ekspresyon ki anba a.

$(3x^2 - 6x - 4) - (x^2 + 4x - 2)$

F $2x^2 - 10x - 2$
G $2x^2 - 2x - 6$
H $3x^2 - 10x - 6$
J $3x^2 + 10x + 2$

23 Tablo ki anba a prezante kantite elèv ki nan Walters Middle School chak ane pandan yon peryòd senkan.

Walters Middle School

Ane	Kantite elèv
2000	511
2001	548
2002	587
2003	664
2004	705

Ki pousantaj **apwoksimatif** ogmantasyon nan kantite elèv ant ane 2000 ak ane 2004?

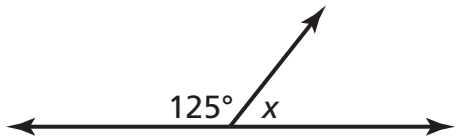
A 50%
B 40%
C 30%
D 20%

24 Kare yon nonb, *n,* egal a sòm nonb lan ak 5. Ki ekwasyon ki reprezante relasyon sa a?

F $2n = n + 5$
G $n^2 = n + 5$
H $2n = n - 5$
J $(n + 5)^2 = n + 5$

Kontinye

25 Ki mezi $\angle X$ nan dyagram ki anba a?



[pa trase selon echèl la]

A 45°
B 55°
C 125°
D 180°

26 Senplifye ekspresyon anba a.

4^3

F 7
G 12
H 43
J 64

27 Faktorize $y^2 + 3y - 18$ an de binòm.

A $(y + 9)(y - 2)$
B $(y - 9)(y + 2)$
C $(y + 6)(y - 3)$
D $(y - 6)(y + 3)$

Ane 8
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The McGraw-Hill Companies